

Student:

Teacher:

Date:

1 $15 \times 3 =$ 	2 $78 \div 13 =$ 	3 Write the fraction in lowest terms $\frac{11}{66} =$ 	4 $\begin{array}{r} 19 \\ \times 10 \\ \hline \end{array}$
5 $\begin{array}{r} 590 \\ + 260 \\ \hline \end{array}$	6 Write the fraction in lowest terms $\frac{5}{15} =$ 	7 $\begin{array}{r} 18 \\ \times 5 \\ \hline \end{array}$	8 $\begin{array}{r} 0.66 \\ + 0.11 \\ \hline \end{array}$
9 $\begin{array}{r} 546 \\ - 362 \\ \hline \end{array}$	10 Write the fraction in lowest terms $\frac{3}{24} =$ 	11 $5 \overline{)56}$	12 $\begin{array}{r} 281 \\ \times 11 \\ \hline \end{array}$
13 $\begin{array}{r} 421 \\ \times 42 \\ \hline \end{array}$	14 $\begin{array}{r} 4.14 \\ + 1.07 \\ \hline \end{array}$	15 $17 \overline{)136}$	16 $\begin{array}{r} 5.91 \\ - 3.73 \\ \hline \end{array}$
17 $\begin{array}{r} 317 \\ \times 41 \\ \hline \end{array}$	18 $\begin{array}{r} 0.83 \\ - 0.03 \\ \hline \end{array}$	19 $\frac{6}{49} + \frac{7}{49} =$ 	20 $\begin{array}{r} 148 \\ \times 7 \\ \hline \end{array}$

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21 $4 \overline{)284}$	22 Convert to fraction $0.07 =$ 	23 $5 \overline{)63}$	24 $\begin{array}{r} 11 \\ \times 0.1 \\ \hline \end{array}$
25 $\begin{array}{r} 332 \\ \times 3 \\ \hline \end{array}$	26 $\frac{4}{22} + \frac{3}{22} =$ 	27 $\frac{36}{48} - \frac{13}{48} =$ 	28 40% of 65 =
29 $\frac{19}{27} - \frac{5}{27} =$ 	30 $\frac{3}{5} \times \frac{1}{2} =$ 	31 $8 \overline{)426}$	32 $\begin{array}{r} 45 \\ \times 1.2 \\ \hline \end{array}$
33 Convert to decimal $\frac{92}{100} =$ 	34 $\frac{9}{20} \times \frac{3}{20} =$ 	35 Convert to fraction $0.11 =$ 	36 $3 \overline{)1.2}$
37 Convert to decimal $\frac{47}{100} =$ 	38 90% of 90 = 	39 $50 \overline{)210}$	

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Grade 5, Probe 4 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	45	1	0	21.	71	1	0
2.	6	1	0	22.	$\frac{7}{100}$	2	0
3.	$\frac{1}{6}$	2	0	23.	12 r3; 12.6; $12\frac{3}{5}$	3	0
4.	190	2	0	24.	1.1	3	0
5.	850	1	0	25.	996	1	0
6.	$\frac{1}{3}$	3	0	26.	$\frac{7}{22}$	1	0
7.	90	1	0	27.	$\frac{23}{48}$	2	0
8.	0.77	1	0	28.	26	3	0
9.	184	2	0	29.	$\frac{14}{27}$	1	0
10.	$\frac{1}{8}$	2	0	30.	$\frac{3}{10}$	3	0
11.	11 r1; 11.2; $11\frac{1}{5}$	2	0	31.	53 r2; 53.25; $53\frac{2}{8}$; $53\frac{1}{4}$	3	0
12.	3091	2	0	32.	54	3	0
13.	17,682	2	0	33.	0.92	2	0
14.	5.21	1	0	34.	$\frac{27}{400}$	3	0
15.	8	1	0	35.	$\frac{11}{100}$	1	0
16.	2.18	2	0	36.	0.4	3	0
17.	12,997	2	0	37.	0.47	3	0
18.	0.8	1	0	38.	81	3	0
19.	$\frac{13}{49}$	1	0	39.	4 r10; 4.2; $4\frac{10}{50}$; $4\frac{2}{10}$; $4\frac{1}{5}$	3	0
20.	1036	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1 $14 \times 6 =$ 	2 $65 \div 13 =$ 	3 Write the fraction in lowest terms $\frac{7}{21} =$ 	4 $\begin{array}{r} 11 \\ \times 19 \\ \hline \end{array}$
5 $\begin{array}{r} 860 \\ + 540 \\ \hline \end{array}$	6 Write the fraction in lowest terms $\frac{2}{20} =$ 	7 $\begin{array}{r} 17 \\ \times 5 \\ \hline \end{array}$	8 $\begin{array}{r} 0.63 \\ + 0.13 \\ \hline \end{array}$
9 $\begin{array}{r} 313 \\ - 231 \\ \hline \end{array}$	10 Write the fraction in lowest terms $\frac{3}{6} =$ 	11 $5 \overline{)54}$	12 $\begin{array}{r} 440 \\ \times 12 \\ \hline \end{array}$
13 $\begin{array}{r} 123 \\ \times 32 \\ \hline \end{array}$	14 $\begin{array}{r} 7.79 \\ + 1.06 \\ \hline \end{array}$	15 $14 \overline{)140}$	16 $\begin{array}{r} 7.88 \\ - 4.29 \\ \hline \end{array}$
17 $\begin{array}{r} 462 \\ \times 41 \\ \hline \end{array}$	18 $\begin{array}{r} 0.86 \\ - 0.04 \\ \hline \end{array}$	19 $\frac{12}{37} + \frac{8}{37} =$ 	20 $\begin{array}{r} 164 \\ \times 3 \\ \hline \end{array}$

Student:

Teacher:

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21 $4 \overline{)332}$	22 Convert to fraction $0.19 =$ 	23 $5 \overline{)71}$	24 $\begin{array}{r} 20 \\ \times 0.2 \\ \hline \end{array}$
25 $\begin{array}{r} 141 \\ \times 2 \\ \hline \end{array}$	26 $\frac{6}{30} + \frac{7}{30} =$ 	27 $\frac{26}{36} - \frac{3}{36} =$ 	28 80% of 15 =
29 $\frac{18}{25} - \frac{5}{25} =$ 	30 $\frac{4}{9} \times \frac{1}{5} =$ 	31 $6 \overline{)261}$	32 $\begin{array}{r} 55 \\ \times 4.0 \\ \hline \end{array}$
33 Convert to decimal $\frac{69}{100} =$ 	34 $\frac{3}{7} \times \frac{5}{7} =$ 	35 Convert to fraction $0.09 =$ 	36 $4 \overline{)2.0}$
37 Convert to decimal $\frac{24}{100} =$ 	38 20% of 35 = 	39 $25 \overline{)160}$	

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Grade 5, Probe 5 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	84	1	0	21.	83	1	0
2.	5	1	0	22.	$\frac{19}{100}$	2	0
3.	$\frac{1}{3}$	2	0	23.	14 r1; 14.2; $14\frac{1}{5}$	3	0
4.	209	2	0	24.	4	3	0
5.	1400	1	0	25.	282	1	0
6.	$\frac{1}{10}$	3	0	26.	$\frac{13}{30}$	1	0
7.	85	1	0	27.	$\frac{23}{36}$	2	0
8.	0.76	1	0	28.	12	3	0
9.	82	2	0	29.	$\frac{13}{25}$	1	0
10.	$\frac{1}{2}$	2	0	30.	$\frac{4}{45}$	3	0
11.	10 r4; 10.8; $10\frac{4}{5}$	2	0	31.	43 r3; 43.5; $43\frac{3}{6}$; $43\frac{1}{2}$	3	0
12.	5280	2	0	32.	220	3	0
13.	3936	2	0	33.	0.69	2	0
14.	8.85	1	0	34.	$\frac{15}{49}$	3	0
15.	10	1	0	35.	$\frac{9}{100}$	1	0
16.	3.59	2	0	36.	0.5	3	0
17.	18,942	2	0	37.	0.24	3	0
18.	0.82	1	0	38.	7	3	0
19.	$\frac{20}{37}$	1	0	39.	6 r10; 6.4; $6\frac{10}{25}$; $6\frac{2}{5}$	3	0
20.	492	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1 $17 \times 3 =$ _____	2 $75 \div 15 =$ _____	3 Write the fraction in lowest terms $\frac{5}{10} =$ _____	4 $\begin{array}{r} 14 \\ \times 12 \\ \hline \end{array}$
5 $\begin{array}{r} 403 \\ + 507 \\ \hline \end{array}$	6 Write the fraction in lowest terms $\frac{3}{12} =$ _____	7 $\begin{array}{r} 19 \\ \times 3 \\ \hline \end{array}$	8 $\begin{array}{r} 0.62 \\ + 0.17 \\ \hline \end{array}$
9 $\begin{array}{r} 444 \\ - 206 \\ \hline \end{array}$	10 Write the fraction in lowest terms $\frac{2}{6} =$ _____	11 $8 \overline{)60}$	12 $\begin{array}{r} 124 \\ \times 12 \\ \hline \end{array}$
13 $\begin{array}{r} 421 \\ \times 11 \\ \hline \end{array}$	14 $\begin{array}{r} 8.81 \\ + 5.20 \\ \hline \end{array}$	15 $13 \overline{)143}$	16 $\begin{array}{r} 9.86 \\ - 6.48 \\ \hline \end{array}$
17 $\begin{array}{r} 429 \\ \times 13 \\ \hline \end{array}$	18 $\begin{array}{r} 0.54 \\ - 0.23 \\ \hline \end{array}$	19 $\frac{2}{21} + \frac{3}{21} =$ _____	20 $\begin{array}{r} 204 \\ \times 7 \\ \hline \end{array}$

Student:

Teacher:

Date:

21 $2 \overline{)406}$	22 Convert to fraction $0.7 =$ 	23 $4 \overline{)90}$	24 $\begin{array}{r} 32 \\ \times 0.1 \\ \hline \end{array}$
25 $\begin{array}{r} 311 \\ \times 3 \\ \hline \end{array}$	26 $\frac{8}{19} + \frac{10}{19} =$ 	27 $\frac{12}{22} - \frac{9}{22} =$ 	28 20% of 65 =
29 $\frac{35}{49} - \frac{15}{49} =$ 	30 $\frac{2}{7} \times \frac{1}{5} =$ 	31 $5 \overline{)351}$	32 $\begin{array}{r} 42 \\ \times 2.5 \\ \hline \end{array}$
33 Convert to decimal $\frac{1}{2} =$ 	34 $\frac{4}{5} \times \frac{3}{5} =$ 	35 Convert to fraction $0.47 =$ 	36 $2 \overline{)4.2}$
37 Convert to decimal $\frac{1}{10} =$ 	38 40% of 55 = 	39 $32 \overline{)304}$	

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Grade 5, Probe 6 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	51	1	0	21.	203	1	0
2.	5	1	0	22.	$\frac{7}{10}$	2	0
3.	$\frac{1}{2}$	2	0	23.	22 r2; 22.5; $22\frac{2}{4}$; $22\frac{1}{2}$	3	0
4.	168	2	0	24.	3.2	3	0
5.	910	1	0	25.	933	1	0
6.	$\frac{1}{4}$	3	0	26.	$\frac{18}{19}$	1	0
7.	57	1	0	27.	$\frac{3}{22}$	2	0
8.	0.79	1	0	28.	13	3	0
9.	238	2	0	29.	$\frac{20}{49}$	1	0
10.	$\frac{1}{3}$	2	0	30.	$\frac{2}{35}$	3	0
11.	7 r4; 7.5; $7\frac{4}{8}$; $7\frac{1}{2}$	2	0	31.	70 r1; 70.2; $70\frac{1}{5}$	3	0
12.	1488	2	0	32.	105	3	0
13.	4631	2	0	33.	0.5	2	0
14.	14.01	1	0	34.	$\frac{12}{25}$	3	0
15.	11	1	0	35.	$\frac{47}{100}$	1	0
16.	3.38	2	0	36.	2.1	3	0
17.	5577	2	0	37.	0.1	3	0
18.	0.31	1	0	38.	22	3	0
19.	$\frac{5}{21}$	1	0	39.	9 r16; 9.5; $9\frac{16}{32}$; $9\frac{1}{2}$	3	0
20.	1428	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

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1

$$15 \times 4 =$$

2

$$72 \div 12 =$$

3Write the fraction
in lowest terms

$$\frac{11}{55} =$$

4

$$\begin{array}{r} 11 \\ \times 10 \\ \hline \end{array}$$

5

$$\begin{array}{r} 450 \\ + 170 \\ \hline \end{array}$$

6Write the fraction
in lowest terms

$$\frac{5}{30} =$$

7

$$\begin{array}{r} 13 \\ \times 7 \\ \hline \end{array}$$

8

$$\begin{array}{r} 0.72 \\ + 0.15 \\ \hline \end{array}$$

9

$$\begin{array}{r} 145 \\ - 126 \\ \hline \end{array}$$

10Write the fraction
in lowest terms

$$\frac{2}{4} =$$

11

$$8 \overline{)76}$$

12

$$\begin{array}{r} 523 \\ \times 31 \\ \hline \end{array}$$

13

$$\begin{array}{r} 411 \\ \times 20 \\ \hline \end{array}$$

14

$$\begin{array}{r} 6.28 \\ + 1.03 \\ \hline \end{array}$$

15

$$15 \overline{)105}$$

16

$$\begin{array}{r} 4.65 \\ - 2.36 \\ \hline \end{array}$$

17

$$\begin{array}{r} 441 \\ \times 24 \\ \hline \end{array}$$

18

$$\begin{array}{r} 0.58 \\ - 0.15 \\ \hline \end{array}$$

19

$$\frac{14}{24} + \frac{9}{24} =$$

20

$$\begin{array}{r} 212 \\ \times 7 \\ \hline \end{array}$$

Student:

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Date:

21 $8 \overline{)248}$	22 Convert to fraction $0.93 =$ 	23 $5 \overline{)52}$	24 $\begin{array}{r} 40 \\ \times 0.5 \\ \hline \end{array}$
25 $\begin{array}{r} 244 \\ \times 2 \\ \hline \end{array}$	26 $\frac{3}{42} + \frac{8}{42} =$ 	27 $\frac{12}{18} - \frac{1}{18} =$ 	28 40% of 20 =
29 $\frac{22}{29} - \frac{5}{29} =$ 	30 $\frac{1}{2} \times \frac{1}{3} =$ 	31 $5 \overline{)247}$	32 $\begin{array}{r} 25 \\ \times 4.5 \\ \hline \end{array}$
33 Convert to decimal $\frac{30}{100} =$ 	34 $\frac{7}{10} \times \frac{7}{10} =$ 	35 Convert to fraction $0.59 =$ 	36 $3 \overline{)5.4}$
37 Convert to decimal $\frac{8}{100} =$ 	38 70% of 20 = 	39 $12 \overline{)366}$	

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Grade 5, Probe 7 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	60	1	0	21.	31	1	0
2.	6	1	0	22.	$\frac{93}{100}$	2	0
3.	$\frac{1}{5}$	2	0	23.	10 r2; 10.4; $10\frac{2}{5}$	3	0
4.	110	2	0	24.	20	3	0
5.	620	1	0	25.	488	1	0
6.	$\frac{1}{6}$	3	0	26.	$\frac{11}{42}$	1	0
7.	91	1	0	27.	$\frac{11}{18}$	2	0
8.	0.87	1	0	28.	8	3	0
9.	19	2	0	29.	$\frac{17}{29}$	1	0
10.	$\frac{1}{2}$	2	0	30.	$\frac{1}{6}$	3	0
11.	9 r4; 9.5; $9\frac{4}{8}$; $9\frac{2}{4}$; $9\frac{1}{2}$	2	0	31.	49 r2; 49.4; $49\frac{2}{5}$	3	0
12.	16,213	2	0	32.	112.5	3	0
13.	8220	2	0	33.	0.3	2	0
14.	7.31	1	0	34.	$\frac{49}{100}$	3	0
15.	7	1	0	35.	$\frac{59}{100}$	1	0
16.	2.29	2	0	36.	1.8	3	0
17.	10,584	2	0	37.	0.08	3	0
18.	0.43	1	0	38.	14	3	0
19.	$\frac{23}{24}$	1	0	39.	30 r6; 30.5; $30\frac{6}{12}$; $30\frac{3}{6}$; $30\frac{1}{2}$	3	0
20.	1484	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

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1 $13 \times 9 =$ 	2 $36 \div 18 =$ 	3 Write the fraction in lowest terms $\frac{11}{22} =$ 	4 $\begin{array}{r} 19 \\ \times 11 \\ \hline \end{array}$
5 $\begin{array}{r} 905 \\ + 805 \\ \hline \end{array}$	6 Write the fraction in lowest terms $\frac{3}{21} =$ 	7 $\begin{array}{r} 17 \\ \times 5 \\ \hline \end{array}$	8 $\begin{array}{r} 0.56 \\ + 0.11 \\ \hline \end{array}$
9 $\begin{array}{r} 224 \\ - 142 \\ \hline \end{array}$	10 Write the fraction in lowest terms $\frac{2}{8} =$ 	11 $4 \overline{)90}$	12 $\begin{array}{r} 412 \\ \times 31 \\ \hline \end{array}$
13 $\begin{array}{r} 322 \\ \times 24 \\ \hline \end{array}$	14 $\begin{array}{r} 5.67 \\ + 1.06 \\ \hline \end{array}$	15 $20 \overline{)120}$	16 $\begin{array}{r} 9.73 \\ - 4.28 \\ \hline \end{array}$
17 $\begin{array}{r} 140 \\ \times 25 \\ \hline \end{array}$	18 $\begin{array}{r} 0.37 \\ - 0.05 \\ \hline \end{array}$	19 $\frac{2}{28} + \frac{3}{28} =$ 	20 $\begin{array}{r} 222 \\ \times 5 \\ \hline \end{array}$

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21 $7 \overline{)168}$	22 Convert to fraction $0.31 =$ 	23 $5 \overline{)89}$	24 $\begin{array}{r} 21 \\ \times 0.2 \\ \hline \end{array}$
25 $\begin{array}{r} 212 \\ \times 4 \\ \hline \end{array}$	26 $\frac{17}{29} + \frac{7}{29} =$ 	27 $\frac{29}{30} - \frac{6}{30} =$ 	28 20% of 85 =
29 $\frac{18}{22} - \frac{3}{22} =$ 	30 $\frac{7}{9} \times \frac{1}{4} =$ 	31 $5 \overline{)471}$	32 $\begin{array}{r} 25 \\ \times 2.2 \\ \hline \end{array}$
33 Convert to decimal $\frac{12}{100} =$ 	34 $\frac{7}{20} \times \frac{9}{20} =$ 	35 Convert to fraction $0.27 =$ 	36 $4 \overline{)0.4}$
37 Convert to decimal $\frac{37}{100} =$ 	38 40% of 80 = 	39 $25 \overline{)245}$	

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Grade 5, Probe 8 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	117	1	0	21.	24	1	0
2.	2	1	0	22.	$\frac{31}{100}$	2	0
3.	$\frac{1}{2}$	2	0	23.	17 r4; 17.8; $17\frac{4}{5}$	3	0
4.	209	2	0	24.	4.2	3	0
5.	1710	1	0	25.	848	1	0
6.	$\frac{1}{7}$	3	0	26.	$\frac{24}{29}$	1	0
7.	85	1	0	27.	$\frac{23}{30}$	2	0
8.	0.67	1	0	28.	17	3	0
9.	82	2	0	29.	$\frac{15}{22}$	1	0
10.	$\frac{1}{4}$	2	0	30.	$\frac{7}{36}$	3	0
11.	22 r2; 22.5; $22\frac{2}{4}$; $22\frac{1}{2}$	2	0	31.	94 r1; 94.2; $94\frac{1}{5}$	3	0
12.	12,772	2	0	32.	55	3	0
13.	7728	2	0	33.	0.12	2	0
14.	6.73	1	0	34.	$\frac{63}{400}$	3	0
15.	6	1	0	35.	$\frac{27}{100}$	1	0
16.	5.45	2	0	36.	0.1	3	0
17.	3500	2	0	37.	0.37	3	0
18.	0.32	1	0	38.	32	3	0
19.	$\frac{5}{28}$	1	0	39.	9 r20; 9.8; $9\frac{20}{25}$; $9\frac{4}{5}$	3	0
20.	1110	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

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1 $16 \times 2 =$ 	2 $99 \div 11 =$ 	3 Write the fraction in lowest terms $\frac{3}{24} =$ 	4 $\begin{array}{r} 10 \\ \times 19 \\ \hline \end{array}$
5 $\begin{array}{r} 601 \\ + 409 \\ \hline \end{array}$	6 Write the fraction in lowest terms $\frac{7}{21} =$ 	7 $\begin{array}{r} 14 \\ \times 9 \\ \hline \end{array}$	8 $\begin{array}{r} 0.61 \\ + 0.15 \\ \hline \end{array}$
9 $\begin{array}{r} 153 \\ - 126 \\ \hline \end{array}$	10 Write the fraction in lowest terms $\frac{5}{25} =$ 	11 $5 \overline{)49}$	12 $\begin{array}{r} 513 \\ \times 21 \\ \hline \end{array}$
13 $\begin{array}{r} 231 \\ \times 23 \\ \hline \end{array}$	14 $\begin{array}{r} 7.29 \\ + 1.01 \\ \hline \end{array}$	15 $12 \overline{)132}$	16 $\begin{array}{r} 2.73 \\ - 1.38 \\ \hline \end{array}$
17 $\begin{array}{r} 414 \\ \times 26 \\ \hline \end{array}$	18 $\begin{array}{r} 0.44 \\ - 0.13 \\ \hline \end{array}$	19 $\frac{9}{14} + \frac{2}{14} =$ 	20 $\begin{array}{r} 239 \\ \times 9 \\ \hline \end{array}$

Student:

Teacher:

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21 $4 \overline{)212}$	22 Convert to fraction $0.43 =$ 	23 $6 \overline{)87}$	24 $\begin{array}{r} 52 \\ \times 0.2 \\ \hline \end{array}$
25 $\begin{array}{r} 413 \\ \times 2 \\ \hline \end{array}$	26 $\frac{12}{17} + \frac{4}{17} =$ 	27 $\frac{24}{32} - \frac{5}{32} =$ 	28 20% of 40 =
29 $\frac{28}{37} - \frac{9}{37} =$ 	30 $\frac{3}{8} \times \frac{1}{4} =$ 	31 $4 \overline{)254}$	32 $\begin{array}{r} 22 \\ \times 4.5 \\ \hline \end{array}$
33 Convert to decimal $\frac{19}{100} =$ 	34 $\frac{5}{6} \times \frac{1}{6} =$ 	35 Convert to fraction $0.89 =$ 	36 $5 \overline{)2.0}$
37 Convert to decimal $\frac{83}{100} =$ 	38 90% of 50 = 	39 $40 \overline{)232}$	

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Grade 5, Probe 9 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	32	1	0	21.	53	1	0
2.	9	1	0	22.	$\frac{43}{100}$	2	0
3.	$\frac{1}{8}$	2	0	23.	14 r3; 14.5; $14\frac{1}{2}$	3	0
4.	190	2	0	24.	10.4	3	0
5.	1010	1	0	25.	826	1	0
6.	$\frac{1}{3}$	3	0	26.	$\frac{16}{17}$	1	0
7.	126	1	0	27.	$\frac{19}{32}$	2	0
8.	0.76	1	0	28.	8	3	0
9.	27	2	0	29.	$\frac{19}{37}$	1	0
10.	$\frac{1}{5}$	2	0	30.	$\frac{3}{32}$	3	0
11.	9 r4; 9.8; $9\frac{4}{5}$	2	0	31.	63 r2; 63.5; $63\frac{1}{2}$	3	0
12.	10,773	2	0	32.	99	3	0
13.	5313	2	0	33.	0.19	2	0
14.	8.3	1	0	34.	$\frac{5}{36}$	3	0
15.	11	1	0	35.	$\frac{89}{100}$	1	0
16.	1.35	2	0	36.	0.4	3	0
17.	10,764	2	0	37.	0.83	3	0
18.	0.31	1	0	38.	45	3	0
19.	$\frac{11}{14}$	1	0	39.	5 r32; 5.8; $5\frac{32}{40}$; $5\frac{16}{20}$; $5\frac{4}{5}$	3	0
20.	2151	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1 $13 \times 8 =$ 	2 $42 \div 14 =$ 	3 Write the fraction in lowest terms $\frac{5}{15} =$ 	4 $\begin{array}{r} 18 \\ \times 11 \\ \hline \end{array}$
5 $\begin{array}{r} 370 \\ + 170 \\ \hline \end{array}$	6 Write the fraction in lowest terms $\frac{11}{77} =$ 	7 $\begin{array}{r} 19 \\ \times 8 \\ \hline \end{array}$	8 $\begin{array}{r} 0.81 \\ + 0.18 \\ \hline \end{array}$
9 $\begin{array}{r} 442 \\ - 425 \\ \hline \end{array}$	10 Write the fraction in lowest terms $\frac{2}{24} =$ 	11 $2 \overline{)57}$	12 $\begin{array}{r} 412 \\ \times 40 \\ \hline \end{array}$
13 $\begin{array}{r} 352 \\ \times 11 \\ \hline \end{array}$	14 $\begin{array}{r} 4.44 \\ + 1.08 \\ \hline \end{array}$	15 $10 \overline{)130}$	16 $\begin{array}{r} 4.42 \\ - 3.15 \\ \hline \end{array}$
17 $\begin{array}{r} 313 \\ \times 35 \\ \hline \end{array}$	18 $\begin{array}{r} 0.57 \\ - 0.54 \\ \hline \end{array}$	19 $\frac{9}{45} + \frac{7}{45} =$ 	20 $\begin{array}{r} 154 \\ \times 7 \\ \hline \end{array}$

Student:

Teacher:

Date:

21 $5 \overline{)255}$	22 Convert to fraction $0.03 =$ 	23 $4 \overline{)78}$	24 $\begin{array}{r} 30 \\ \times 0.1 \\ \hline \end{array}$
25 $\begin{array}{r} 334 \\ \times 2 \\ \hline \end{array}$	26 $\frac{5}{36} + \frac{8}{36} =$ 	27 $\frac{33}{46} - \frac{8}{46} =$ 	28 20% of 15 =
29 $\frac{5}{11} - \frac{4}{11} =$ 	30 $\frac{7}{9} \times \frac{1}{2} =$ 	31 $6 \overline{)213}$	32 $\begin{array}{r} 25 \\ \times 3.5 \\ \hline \end{array}$
33 Convert to decimal $\frac{88}{100} =$ 	34 $\frac{2}{9} \times \frac{5}{9} =$ 	35 Convert to fraction $0.13 =$ 	36 $3 \overline{)1.2}$
37 Convert to decimal $\frac{21}{100} =$ 	38 90% of 70 = 	39 $55 \overline{)242}$	

Student:

Teacher:

Date:

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

Grade 5, Probe 10 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	104	1	0	21.	51	1	0
2.	3	1	0	22.	$\frac{3}{100}$	2	0
3.	$\frac{1}{3}$	2	0	23.	19 r2; 19.5; $19\frac{2}{4}$; $19\frac{1}{2}$	3	0
4.	198	2	0	24.	3	3	0
5.	540	1	0	25.	668	1	0
6.	$\frac{1}{7}$	3	0	26.	$\frac{13}{36}$	1	0
7.	152	1	0	27.	$\frac{25}{46}$	2	0
8.	0.99	1	0	28.	3	3	0
9.	17	2	0	29.	$\frac{1}{11}$	1	0
10.	$\frac{1}{12}$	2	0	30.	$\frac{7}{18}$	3	0
11.	28 r1; 28.5; $28\frac{1}{2}$	2	0	31.	35 r3; 35.5; $35\frac{3}{6}$; $35\frac{1}{2}$	3	0
12.	16,480	2	0	32.	87.5	3	0
13.	3872	2	0	33.	0.88	2	0
14.	5.52	1	0	34.	$\frac{10}{81}$	3	0
15.	13	1	0	35.	$\frac{13}{100}$	1	0
16.	1.27	2	0	36.	0.4	3	0
17.	10,955	2	0	37.	0.21	3	0
18.	0.03	1	0	38.	63	3	0
19.	$\frac{16}{45}$	1	0	39.	4 r22; 4.4; $4\frac{22}{55}$; $4\frac{2}{5}$	3	0
20.	1078	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1 $14 \times 9 =$ 	2 $85 \div 17 =$ 	3 Write the fraction in lowest terms $\frac{2}{20} =$ 	4 $\begin{array}{r} 14 \\ \times 10 \\ \hline \end{array}$
5 $\begin{array}{r} 409 \\ + 502 \\ \hline \end{array}$	6 Write the fraction in lowest terms $\frac{3}{12} =$ 	7 $\begin{array}{r} 15 \\ \times 2 \\ \hline \end{array}$	8 $\begin{array}{r} 0.83 \\ + 0.15 \\ \hline \end{array}$
9 $\begin{array}{r} 125 \\ - 116 \\ \hline \end{array}$	10 Write the fraction in lowest terms $\frac{7}{21} =$ 	11 $4 \overline{)66}$	12 $\begin{array}{r} 155 \\ \times 11 \\ \hline \end{array}$
13 $\begin{array}{r} 204 \\ \times 21 \\ \hline \end{array}$	14 $\begin{array}{r} 5.47 \\ + 1.05 \\ \hline \end{array}$	15 $13 \overline{)104}$	16 $\begin{array}{r} 6.34 \\ - 2.26 \\ \hline \end{array}$
17 $\begin{array}{r} 112 \\ \times 53 \\ \hline \end{array}$	18 $\begin{array}{r} 0.39 \\ - 0.06 \\ \hline \end{array}$	19 $\frac{9}{46} + \frac{2}{46} =$ 	20 $\begin{array}{r} 124 \\ \times 9 \\ \hline \end{array}$

Student:

Teacher:

Date:

21 $7 \overline{)161}$	22 Convert to fraction $0.61 =$ _____	23 $5 \overline{)67}$	24 $\begin{array}{r} 11 \\ \times 0.2 \\ \hline \end{array}$
25 $\begin{array}{r} 204 \\ \times 2 \\ \hline \end{array}$	26 $\frac{2}{47} + \frac{9}{47} =$ _____	27 $\frac{8}{11} - \frac{3}{11} =$ _____	28 50% of 40 = _____
29 $\frac{21}{23} - \frac{10}{23} =$ _____	30 $\frac{7}{9} \times \frac{1}{3} =$ _____	31 $8 \overline{)394}$	32 $\begin{array}{r} 42 \\ \times 2.5 \\ \hline \end{array}$
33 Convert to decimal $\frac{18}{100} =$ _____	34 $\frac{2}{7} \times \frac{5}{7} =$ _____	35 Convert to fraction $0.49 =$ _____	36 $4 \overline{)4.4}$
37 Convert to decimal $\frac{63}{100} =$ _____	38 60% of 45 = _____	39 $25 \overline{)365}$	

Student:

Teacher:

Date:

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

Grade 5, Probe 11 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	126	1	0	21.	23	1	0
2.	5	1	0	22.	$\frac{61}{100}$	2	0
3.	$\frac{1}{10}$	2	0	23.	13 r2; 13.4; $13\frac{2}{5}$	3	0
4.	140	2	0	24.	2.2	3	0
5.	911	1	0	25.	408	1	0
6.	$\frac{1}{4}$	3	0	26.	$\frac{11}{47}$	1	0
7.	30	1	0	27.	$\frac{5}{11}$	2	0
8.	0.98	1	0	28.	20	3	0
9.	9	2	0	29.	$\frac{11}{23}$	1	0
10.	$\frac{1}{3}$	2	0	30.	$\frac{7}{27}$	3	0
11.	16 r2; 16.5; $16\frac{2}{4}$; $16\frac{1}{2}$	2	0	31.	49 r2; 49.25; $49\frac{2}{8}$; $49\frac{1}{4}$	3	0
12.	1705	2	0	32.	105	3	0
13.	4284	2	0	33.	0.18	2	0
14.	6.52	1	0	34.	$\frac{10}{49}$	3	0
15.	8	1	0	35.	$\frac{49}{100}$	1	0
16.	4.08	2	0	36.	1.1	3	0
17.	5936	2	0	37.	0.63	3	0
18.	0.33	1	0	38.	27	3	0
19.	$\frac{11}{46}$	1	0	39.	14 r15; 14.6; $14\frac{15}{25}$; $14\frac{3}{5}$	3	0
20.	1116	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1 $15 \times 5 =$ 	2 $60 \div 12 =$ 	3 Write the fraction in lowest terms $\frac{7}{14} =$ 	4 $\begin{array}{r} 13 \\ \times 10 \\ \hline \end{array}$
5 $\begin{array}{r} 603 \\ + 307 \\ \hline \end{array}$	6 Write the fraction in lowest terms $\frac{2}{12} =$ 	7 $\begin{array}{r} 19 \\ \times 6 \\ \hline \end{array}$	8 $\begin{array}{r} 0.57 \\ + 0.12 \\ \hline \end{array}$
9 $\begin{array}{r} 242 \\ - 150 \\ \hline \end{array}$	10 Write the fraction in lowest terms $\frac{11}{44} =$ 	11 $2 \overline{)81}$	12 $\begin{array}{r} 512 \\ \times 32 \\ \hline \end{array}$
13 $\begin{array}{r} 120 \\ \times 30 \\ \hline \end{array}$	14 $\begin{array}{r} 4.83 \\ + 1.09 \\ \hline \end{array}$	15 $13 \overline{)143}$	16 $\begin{array}{r} 6.48 \\ - 3.19 \\ \hline \end{array}$
17 $\begin{array}{r} 152 \\ \times 13 \\ \hline \end{array}$	18 $\begin{array}{r} 0.59 \\ - 0.06 \\ \hline \end{array}$	19 $\frac{5}{33} + \frac{2}{33} =$ 	20 $\begin{array}{r} 249 \\ \times 3 \\ \hline \end{array}$

Student:

Teacher:

Date:

21 $8 \overline{)416}$	22 Convert to fraction $0.53 =$ 	23 $5 \overline{)88}$	24 $\begin{array}{r} 10 \\ \times 0.2 \\ \hline \end{array}$
25 $\begin{array}{r} 322 \\ \times 4 \\ \hline \end{array}$	26 $\frac{13}{21} + \frac{4}{21} =$ 	27 $\frac{11}{13} - \frac{9}{13} =$ 	28 80% of 20 =
29 $\frac{27}{28} - \frac{4}{28} =$ 	30 $\frac{2}{3} \times \frac{2}{5} =$ 	31 $8 \overline{)362}$	32 $\begin{array}{r} 35 \\ \times 3.2 \\ \hline \end{array}$
33 Convert to decimal $\frac{1}{10} =$ 	34 $\frac{9}{20} \times \frac{9}{20} =$ 	35 Convert to fraction $0.89 =$ 	36 $2 \overline{)1.0}$
37 Convert to decimal $\frac{60}{100} =$ 	38 75% of 80 = 	39 $42 \overline{)441}$	

Student:

Teacher:

Date:

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

Grade 5, Probe 12 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	75	1	0	21.	52	1	0
2.	5	1	0	22.	$\frac{53}{100}$	2	0
3.	$\frac{1}{2}$	2	0	23.	17 r3; 17.6; $17\frac{3}{5}$	3	0
4.	130	2	0	24.	2	3	0
5.	910	1	0	25.	1288	1	0
6.	$\frac{1}{6}$	3	0	26.	$\frac{17}{21}$	1	0
7.	114	1	0	27.	$\frac{2}{13}$	2	0
8.	0.69	1	0	28.	16	3	0
9.	92	2	0	29.	$\frac{23}{28}$	1	0
10.	$\frac{1}{4}$	2	0	30.	$\frac{4}{15}$	3	0
11.	40 r1; 40.5; $40\frac{1}{2}$	2	0	31.	45 r2; 45.25; $45\frac{2}{8}$; $45\frac{1}{4}$	3	0
12.	16,384	2	0	32.	112	3	0
13.	3600	2	0	33.	0.1	2	0
14.	5.92	1	0	34.	$\frac{81}{400}$	3	0
15.	11	1	0	35.	$\frac{89}{100}$	1	0
16.	3.29	2	0	36.	0.5	3	0
17.	1976	2	0	37.	0.6	3	0
18.	0.53	1	0	38.	60	3	0
19.	$\frac{7}{33}$	1	0	39.	10 r21; 10.5; $10\frac{21}{42}$; $10\frac{7}{14}$; $10\frac{1}{2}$	3	0
20.	747	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1

$$17 \times 7 =$$

2

$$91 \div 13 =$$

3Write the fraction
in lowest terms

$$\frac{2}{14} =$$

4

$$\begin{array}{r} 19 \\ \times 10 \\ \hline \end{array}$$

5

$$\begin{array}{r} 305 \\ + 208 \\ \hline \end{array}$$

6Write the fraction
in lowest terms

$$\frac{11}{88} =$$

7

$$\begin{array}{r} 13 \\ \times 4 \\ \hline \end{array}$$

8

$$\begin{array}{r} 0.62 \\ + 0.14 \\ \hline \end{array}$$

9

$$\begin{array}{r} 325 \\ - 243 \\ \hline \end{array}$$

10Write the fraction
in lowest terms

$$\frac{8}{16} =$$

11

$$6 \overline{)69}$$

12

$$\begin{array}{r} 233 \\ \times 22 \\ \hline \end{array}$$

13

$$\begin{array}{r} 121 \\ \times 42 \\ \hline \end{array}$$

14

$$\begin{array}{r} 5.87 \\ + 1.08 \\ \hline \end{array}$$

15

$$14 \overline{)126}$$

16

$$\begin{array}{r} 2.64 \\ - 1.17 \\ \hline \end{array}$$

17

$$\begin{array}{r} 212 \\ \times 28 \\ \hline \end{array}$$

18

$$\begin{array}{r} 0.49 \\ - 0.05 \\ \hline \end{array}$$

19

$$\frac{6}{14} + \frac{3}{14} =$$

20

$$\begin{array}{r} 267 \\ \times 2 \\ \hline \end{array}$$

Student:

Teacher:

Date:

21 $7 \overline{)217}$	22 Convert to fraction $0.77 =$ 	23 $2 \overline{)57}$	24 $\begin{array}{r} 12 \\ \times 0.1 \\ \hline \end{array}$
25 $\begin{array}{r} 313 \\ \times 3 \\ \hline \end{array}$	26 $\frac{7}{20} + \frac{6}{20} =$ 	27 $\frac{18}{30} - \frac{7}{30} =$ 	28 $10\% \text{ of } 10 =$
29 $\frac{37}{42} - \frac{18}{42} =$ 	30 $\frac{1}{2} \times \frac{1}{5} =$ 	31 $5 \overline{)431}$	32 $\begin{array}{r} 15 \\ \times 1.5 \\ \hline \end{array}$
33 Convert to decimal $\frac{8}{10} =$ 	34 $\frac{2}{9} \times \frac{2}{9} =$ 	35 Convert to fraction $0.87 =$ 	36 $3 \overline{)4.2}$
37 Convert to decimal $\frac{43}{100} =$ 	38 $60\% \text{ of } 50 =$ 	39 $15 \overline{)351}$	

Student:

Teacher:

Date:

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

Grade 5, Probe 13 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	119	1	0	21.	31	1	0
2.	7	1	0	22.	$\frac{77}{100}$	2	0
3.	$\frac{1}{7}$	2	0	23.	28 r1; 28.5; $28\frac{1}{2}$	3	0
4.	190	2	0	24.	1.2	3	0
5.	513	1	0	25.	939	1	0
6.	$\frac{1}{8}$	3	0	26.	$\frac{13}{20}$	1	0
7.	52	1	0	27.	$\frac{11}{30}$	2	0
8.	0.76	1	0	28.	1	3	0
9.	82	2	0	29.	$\frac{19}{42}$	1	0
10.	$\frac{1}{2}$	2	0	30.	$\frac{1}{10}$	3	0
11.	11 r3; 11.5; $11\frac{3}{6}$; $11\frac{1}{2}$	2	0	31.	86 r1; 86.2; $86\frac{1}{5}$	3	0
12.	5126	2	0	32.	22.5	3	0
13.	5082	2	0	33.	0.8	2	0
14.	6.95	1	0	34.	$\frac{4}{81}$	3	0
15.	9	1	0	35.	$\frac{87}{100}$	1	0
16.	1.47	2	0	36.	1.4	3	0
17.	5936	2	0	37.	0.43	3	0
18.	0.44	1	0	38.	30	3	0
19.	$\frac{9}{14}$	1	0	39.	23 r6; 23.4; $23\frac{6}{15}$; $23\frac{2}{5}$	3	0
20.	534	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1

$$12 \times 6 =$$

2

$$96 \div 16 =$$

3Write the fraction
in lowest terms

$$\frac{2}{28} =$$

4

$$\begin{array}{r} 11 \\ \times 13 \\ \hline \end{array}$$

5

$$\begin{array}{r} 860 \\ + 540 \\ \hline \end{array}$$

6Write the fraction
in lowest terms

$$\frac{5}{10} =$$

7

$$\begin{array}{r} 17 \\ \times 9 \\ \hline \end{array}$$

8

$$\begin{array}{r} 0.61 \\ + 0.11 \\ \hline \end{array}$$

9

$$\begin{array}{r} 553 \\ - 534 \\ \hline \end{array}$$

10Write the fraction
in lowest terms

$$\frac{3}{27} =$$

11

$$2 \overline{)77}$$

12

$$\begin{array}{r} 133 \\ \times 32 \\ \hline \end{array}$$

13

$$\begin{array}{r} 432 \\ \times 12 \\ \hline \end{array}$$

14

$$\begin{array}{r} 4.15 \\ + 1.08 \\ \hline \end{array}$$

15

$$10 \overline{)110}$$

16

$$\begin{array}{r} 9.84 \\ - 5.75 \\ \hline \end{array}$$

17

$$\begin{array}{r} 536 \\ \times 21 \\ \hline \end{array}$$

18

$$\begin{array}{r} 0.88 \\ - 0.02 \\ \hline \end{array}$$

19

$$\frac{9}{34} + \frac{2}{34} =$$

20

$$\begin{array}{r} 248 \\ \times 5 \\ \hline \end{array}$$

Student:

Teacher:

Date:

21 $9 \overline{)171}$	22 Convert to fraction $0.63 =$ 	23 $2 \overline{)75}$	24 $\begin{array}{r} 32 \\ \times 0.2 \\ \hline \end{array}$
25 $\begin{array}{r} 142 \\ \times 2 \\ \hline \end{array}$	26 $\frac{8}{14} + \frac{5}{14} =$ 	27 $\frac{11}{12} - \frac{6}{12} =$ 	28 90% of 40 =
29 $\frac{7}{16} - \frac{6}{16} =$ 	30 $\frac{2}{3} \times \frac{2}{9} =$ 	31 $4 \overline{)342}$	32 $\begin{array}{r} 45 \\ \times 1.5 \\ \hline \end{array}$
33 Convert to decimal $\frac{71}{100} =$ 	34 $\frac{2}{9} \times \frac{7}{9} =$ 	35 Convert to fraction $0.97 =$ 	36 $2 \overline{)2.4}$
37 Convert to decimal $\frac{57}{100} =$ 	38 10% of 70 = 	39 $22 \overline{)341}$	

Student:

Teacher:

Date:

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

Grade 5, Probe 14 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	72	1	0	21.	19	1	0
2.	6	1	0	22.	$\frac{63}{100}$	2	0
3.	$\frac{1}{14}$	2	0	23.	37 r1; 37.5; $37\frac{1}{2}$	3	0
4.	143	2	0	24.	6.4	3	0
5.	1400	1	0	25.	284	1	0
6.	$\frac{1}{2}$	3	0	26.	$\frac{13}{14}$	1	0
7.	153	1	0	27.	$\frac{5}{12}$	2	0
8.	0.72	1	0	28.	36	3	0
9.	19	2	0	29.	$\frac{1}{16}$	1	0
10.	$\frac{1}{9}$	2	0	30.	$\frac{4}{27}$	3	0
11.	38 r1; 38.5; $38\frac{1}{2}$	2	0	31.	85 r2; 85.5; $85\frac{2}{4}$; $85\frac{1}{2}$	3	0
12.	4256	2	0	32.	67.5	3	0
13.	5184	2	0	33.	0.71	2	0
14.	5.23	1	0	34.	$\frac{14}{81}$	3	0
15.	11	1	0	35.	$\frac{97}{100}$	1	0
16.	4.09	2	0	36.	1.2	3	0
17.	11,256	2	0	37.	0.57	3	0
18.	0.86	1	0	38.	7	3	0
19.	$\frac{11}{34}$	1	0	39.	15 r11; 15.5; $15\frac{11}{22}$; $15\frac{1}{2}$	3	0
20.	1240	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1 $17 \times 3 =$ 	2 $54 \div 18 =$ 	3 Write the fraction in lowest terms $\frac{3}{9} =$ 	4 $\begin{array}{r} 12 \\ \times 12 \\ \hline \end{array}$
5 $\begin{array}{r} 602 \\ + 508 \\ \hline \end{array}$	6 Write the fraction in lowest terms $\frac{2}{8} =$ 	7 $\begin{array}{r} 16 \\ \times 9 \\ \hline \end{array}$	8 $\begin{array}{r} 0.71 \\ + 0.13 \\ \hline \end{array}$
9 $\begin{array}{r} 462 \\ - 436 \\ \hline \end{array}$	10 Write the fraction in lowest terms $\frac{3}{18} =$ 	11 $4 \overline{)98}$	12 $\begin{array}{r} 144 \\ \times 21 \\ \hline \end{array}$
13 $\begin{array}{r} 582 \\ \times 11 \\ \hline \end{array}$	14 $\begin{array}{r} 8.85 \\ + 1.07 \\ \hline \end{array}$	15 $20 \overline{)100}$	16 $\begin{array}{r} 3.47 \\ - 1.28 \\ \hline \end{array}$
17 $\begin{array}{r} 541 \\ \times 26 \\ \hline \end{array}$	18 $\begin{array}{r} 0.89 \\ - 0.01 \\ \hline \end{array}$	19 $\frac{5}{26} + \frac{2}{26} =$ 	20 $\begin{array}{r} 457 \\ \times 9 \\ \hline \end{array}$

Student:

Teacher:

Date:

21 $2 \overline{)164}$	22 Convert to fraction $0.7 =$ 	23 $5 \overline{)53}$	24 $\begin{array}{r} 41 \\ \times 0.5 \\ \hline \end{array}$
25 $\begin{array}{r} 202 \\ \times 4 \\ \hline \end{array}$	26 $\frac{8}{29} + \frac{3}{29} =$ 	27 $\frac{23}{34} - \frac{10}{34} =$ 	28 60% of 35 =
29 $\frac{35}{49} - \frac{12}{49} =$ 	30 $\frac{1}{3} \times \frac{1}{6} =$ 	31 $4 \overline{)318}$	32 $\begin{array}{r} 32 \\ \times 1.5 \\ \hline \end{array}$
33 Convert to decimal $\frac{1}{2} =$ 	34 $\frac{5}{9} \times \frac{5}{9} =$ 	35 Convert to fraction $0.47 =$ 	36 $3 \overline{)4.5}$
37 Convert to decimal $\frac{31}{100} =$ 	38 40% of 60 = 	39 $35 \overline{)336}$	

Student:

Teacher:

Date:

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

Grade 5, Probe 15 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	51	1	0	21.	82	1	0
2.	3	1	0	22.	$\frac{7}{10}$	2	0
3.	$\frac{1}{3}$	2	0	23.	10 r3; 10.6; $10\frac{3}{5}$	3	0
4.	144	2	0	24.	20.5	3	0
5.	1110	1	0	25.	808	1	0
6.	$\frac{1}{4}$	3	0	26.	$\frac{11}{29}$	1	0
7.	144	1	0	27.	$\frac{13}{34}$	2	0
8.	0.84	1	0	28.	21	3	0
9.	26	2	0	29.	$\frac{23}{49}$	1	0
10.	$\frac{1}{6}$	2	0	30.	$\frac{1}{18}$	3	0
11.	24 r2; 24.5; $24\frac{2}{4}$; $24\frac{1}{2}$	2	0	31.	79 r2; 79.5; $79\frac{2}{4}$; $79\frac{1}{2}$	3	0
12.	3024	2	0	32.	48	3	0
13.	6402	2	0	33.	0.5	2	0
14.	9.92	1	0	34.	$\frac{25}{81}$	3	0
15.	5	1	0	35.	$\frac{47}{100}$	1	0
16.	2.19	2	0	36.	1.5	3	0
17.	14,066	2	0	37.	0.31	3	0
18.	0.88	1	0	38.	24	3	0
19.	$\frac{7}{26}$	1	0	39.	9 r21; 9.6; $9\frac{21}{35}$; $9\frac{3}{5}$	3	0
20.	4113	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1 $15 \times 8 =$ 	2 $26 \div 13 =$ 	3 Write the fraction in lowest terms $\frac{11}{99} =$ 	4 $\begin{array}{r} 10 \\ \times 12 \\ \hline \end{array}$
5 $\begin{array}{r} 730 \\ + 490 \\ \hline \end{array}$	6 Write the fraction in lowest terms $\frac{6}{30} =$ 	7 $\begin{array}{r} 19 \\ \times 5 \\ \hline \end{array}$	8 $\begin{array}{r} 0.62 \\ + 0.17 \\ \hline \end{array}$
9 $\begin{array}{r} 143 \\ - 125 \\ \hline \end{array}$	10 Write the fraction in lowest terms $\frac{3}{12} =$ 	11 $4 \overline{)58}$	12 $\begin{array}{r} 122 \\ \times 42 \\ \hline \end{array}$
13 $\begin{array}{r} 323 \\ \times 31 \\ \hline \end{array}$	14 $\begin{array}{r} 6.11 \\ + 1.09 \\ \hline \end{array}$	15 $10 \overline{)100}$	16 $\begin{array}{r} 9.86 \\ - 6.48 \\ \hline \end{array}$
17 $\begin{array}{r} 282 \\ \times 21 \\ \hline \end{array}$	18 $\begin{array}{r} 0.48 \\ - 0.16 \\ \hline \end{array}$	19 $\frac{2}{24} + \frac{3}{24} =$ 	20 $\begin{array}{r} 337 \\ \times 3 \\ \hline \end{array}$

Student:

Teacher:

Date:

21 $9 \overline{)243}$	22 Convert to fraction $0.13 =$ 	23 $5 \overline{)71}$	24 $\begin{array}{r} 31 \\ \times 0.2 \\ \hline \end{array}$
25 $\begin{array}{r} 324 \\ \times 2 \\ \hline \end{array}$	26 $\frac{16}{25} + \frac{3}{25} =$ 	27 $\frac{42}{44} - \frac{3}{44} =$ 	28 25% of 40 =
29 $\frac{20}{23} - \frac{5}{23} =$ 	30 $\frac{5}{9} \times \frac{2}{3} =$ 	31 $5 \overline{)487}$	32 $\begin{array}{r} 42 \\ \times 3.5 \\ \hline \end{array}$
33 Convert to decimal $\frac{87}{100} =$ 	34 $\frac{4}{7} \times \frac{9}{7} =$ 	35 Convert to fraction $0.69 =$ 	36 $5 \overline{)2.5}$
37 Convert to decimal $\frac{49}{100} =$ 	38 90% of 20 = 	39 $40 \overline{)344}$	

Student:

Teacher:

Date:

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

Grade 5, Probe 16 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	120	1	0	21.	27	1	0
2.	2	1	0	22.	$\frac{13}{100}$	2	0
3.	$\frac{1}{9}$	2	0	23.	14 r1; 14.2; $14\frac{1}{5}$	3	0
4.	120	2	0	24.	6.2	3	0
5.	1220	1	0	25.	648	1	0
6.	$\frac{1}{5}$	3	0	26.	$\frac{19}{25}$	1	0
7.	95	1	0	27.	$\frac{39}{44}$	2	0
8.	0.79	1	0	28.	10	3	0
9.	18	2	0	29.	$\frac{15}{23}$	1	0
10.	$\frac{1}{4}$	2	0	30.	$\frac{10}{27}$	3	0
11.	14 r2; 14.5; $14\frac{2}{4}$; $14\frac{1}{2}$	2	0	31.	97 r2; 97.4; $97\frac{2}{5}$	3	0
12.	5124	2	0	32.	147	3	0
13.	10,013	2	0	33.	0.87	2	0
14.	7.2	1	0	34.	$\frac{36}{49}$	3	0
15.	10	1	0	35.	$\frac{69}{100}$	1	0
16.	3.38	2	0	36.	0.5	3	0
17.	5922	2	0	37.	0.49	3	0
18.	0.32	1	0	38.	18	3	0
19.	$\frac{5}{24}$	1	0	39.	8 r24; 8.6; $8\frac{24}{40}$; $8\frac{12}{20}$; $8\frac{3}{5}$	3	0
20.	1011	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1

$$15 \times 5 =$$

2

$$40 \div 20 =$$

3Write the fraction
in lowest terms

$$\frac{2}{10} =$$

4

$$\begin{array}{r} 11 \\ \times 17 \\ \hline \end{array}$$

5

$$\begin{array}{r} 302 \\ + 108 \\ \hline \end{array}$$

6Write the fraction
in lowest terms

$$\frac{7}{14} =$$

7

$$\begin{array}{r} 18 \\ \times 8 \\ \hline \end{array}$$

8

$$\begin{array}{r} 0.72 \\ + 0.12 \\ \hline \end{array}$$

9

$$\begin{array}{r} 243 \\ - 162 \\ \hline \end{array}$$

10Write the fraction
in lowest terms

$$\frac{11}{44} =$$

11

$$5 \overline{)61}$$

12

$$\begin{array}{r} 232 \\ \times 21 \\ \hline \end{array}$$

13

$$\begin{array}{r} 211 \\ \times 45 \\ \hline \end{array}$$

14

$$\begin{array}{r} 4.53 \\ + 1.08 \\ \hline \end{array}$$

15

$$11 \overline{)143}$$

16

$$\begin{array}{r} 5.95 \\ - 4.58 \\ \hline \end{array}$$

17

$$\begin{array}{r} 454 \\ \times 20 \\ \hline \end{array}$$

18

$$\begin{array}{r} 0.68 \\ - 0.36 \\ \hline \end{array}$$

19

$$\frac{14}{40} + \frac{5}{40} =$$

20

$$\begin{array}{r} 304 \\ \times 3 \\ \hline \end{array}$$

Student:

Teacher:

Date:

21 $4 \overline{)196}$	22 Convert to fraction $0.81 =$ 	23 $5 \overline{)88}$	24 $\begin{array}{r} 12 \\ \times 0.5 \\ \hline \end{array}$
25 $\begin{array}{r} 221 \\ \times 4 \\ \hline \end{array}$	26 $\frac{20}{28} + \frac{3}{28} =$ 	27 $\frac{35}{49} - \frac{15}{49} =$ 	28 25% of 60 =
29 $\frac{50}{51} - \frac{21}{51} =$ 	30 $\frac{1}{2} \times \frac{1}{6} =$ 	31 $5 \overline{)447}$	32 $\begin{array}{r} 32 \\ \times 2.5 \\ \hline \end{array}$
33 Convert to decimal $\frac{10}{100} =$ 	34 $\frac{7}{9} \times \frac{7}{9} =$ 	35 Convert to fraction $0.57 =$ 	36 $2 \overline{)0.2}$
37 Convert to decimal $\frac{70}{100} =$ 	38 80% of 10 = 	39 $55 \overline{)462}$	

Student:

Teacher:

Date:

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. For more information and examples of alternative correct answers, please refer to the Scoring section of the M–COMP manual.

Grade 5, Probe 17 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	75	1	0	21.	49	1	0
2.	2	1	0	22.	$\frac{81}{100}$	2	0
3.	$\frac{1}{5}$	2	0	23.	17 r3; 17.6; $17\frac{3}{5}$	3	0
4.	187	2	0	24.	6	3	0
5.	410	1	0	25.	884	1	0
6.	$\frac{1}{2}$	3	0	26.	$\frac{23}{28}$	1	0
7.	144	1	0	27.	$\frac{20}{49}$	2	0
8.	0.84	1	0	28.	15	3	0
9.	81	2	0	29.	$\frac{29}{51}$	1	0
10.	$\frac{1}{4}$	2	0	30.	$\frac{1}{12}$	3	0
11.	12 r1; 12.2; $12\frac{1}{5}$	2	0	31.	89 r2; 89.4; $89\frac{2}{5}$	3	0
12.	4872	2	0	32.	80	3	0
13.	9495	2	0	33.	0.1 or 0.10	2	0
14.	5.61	1	0	34.	$\frac{49}{81}$	3	0
15.	13	1	0	35.	$\frac{57}{100}$	1	0
16.	1.37	2	0	36.	0.1	3	0
17.	9080	2	0	37.	0.7	3	0
18.	0.32	1	0	38.	8	3	0
19.	$\frac{19}{40}$	1	0	39.	8 r22; 8.4; $8\frac{22}{55}$; $8\frac{2}{5}$	3	0
20.	912	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1 $18 \times 7 =$ 	2 $90 \div 10 =$ 	3 Write the fraction in lowest terms $\frac{3}{6} =$ 	4 $\begin{array}{r} 13 \\ \times 10 \\ \hline \end{array}$
5 $\begin{array}{r} 750 \\ + 690 \\ \hline \end{array}$	6 Write the fraction in lowest terms $\frac{5}{20} =$ 	7 $\begin{array}{r} 17 \\ \times 6 \\ \hline \end{array}$	8 $\begin{array}{r} 0.81 \\ + 0.18 \\ \hline \end{array}$
9 $\begin{array}{r} 532 \\ - 303 \\ \hline \end{array}$	10 Write the fraction in lowest terms $\frac{2}{10} =$ 	11 $6 \overline{)87}$	12 $\begin{array}{r} 401 \\ \times 21 \\ \hline \end{array}$
13 $\begin{array}{r} 202 \\ \times 11 \\ \hline \end{array}$	14 $\begin{array}{r} 4.57 \\ + 3.06 \\ \hline \end{array}$	15 $12 \overline{)120}$	16 $\begin{array}{r} 4.97 \\ - 3.09 \\ \hline \end{array}$
17 $\begin{array}{r} 141 \\ \times 51 \\ \hline \end{array}$	18 $\begin{array}{r} 0.48 \\ - 0.16 \\ \hline \end{array}$	19 $\frac{3}{15} + \frac{8}{15} =$ 	20 $\begin{array}{r} 404 \\ \times 5 \\ \hline \end{array}$

Student:

Teacher:

Date:

21 $3 \overline{)342}$	22 Convert to fraction $0.1 =$ 	23 $4 \overline{)78}$	24 $\begin{array}{r} 22 \\ \times 0.2 \\ \hline \end{array}$
25 $\begin{array}{r} 232 \\ \times 3 \\ \hline \end{array}$	26 $\frac{22}{43} + \frac{10}{43} =$ 	27 $\frac{14}{17} - \frac{5}{17} =$ 	28 80% of 50 =
29 $\frac{40}{51} - \frac{20}{51} =$ 	30 $\frac{1}{3} \times \frac{1}{5} =$ 	31 $6 \overline{)321}$	32 $\begin{array}{r} 15 \\ \times 1.5 \\ \hline \end{array}$
33 Convert to decimal $\frac{2}{5} =$ 	34 $\frac{3}{5} \times \frac{2}{5} =$ 	35 Convert to fraction $0.19 =$ 	36 $2 \overline{)1.8}$
37 Convert to decimal $\frac{2}{4} =$ 	38 40% of 70 = 	39 $20 \overline{)236}$	

Student:

Teacher:

Date:

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

Grade 5, Probe 18 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	126	1	0	21.	114	1	0
2.	9	1	0	22.	$\frac{1}{10}$	2	0
3.	$\frac{1}{2}$	2	0	23.	19 r2; 19.5; $19\frac{2}{4}$; $19\frac{1}{2}$	3	0
4.	130	2	0	24.	4.4	3	0
5.	1440	1	0	25.	696	1	0
6.	$\frac{1}{4}$	3	0	26.	$\frac{32}{43}$	1	0
7.	102	1	0	27.	$\frac{9}{17}$	2	0
8.	0.99	1	0	28.	40	3	0
9.	229	2	0	29.	$\frac{20}{51}$	1	0
10.	$\frac{1}{5}$	2	0	30.	$\frac{1}{15}$	3	0
11.	14 r3; 14.5; $14\frac{3}{6}$; $14\frac{1}{2}$	2	0	31.	53 r3; 53.5; $53\frac{3}{6}$; $53\frac{1}{2}$	3	0
12.	8421	2	0	32.	22.5	3	0
13.	2222	2	0	33.	0.4	2	0
14.	7.63	1	0	34.	$\frac{6}{25}$	3	0
15.	10	1	0	35.	$\frac{19}{100}$	1	0
16.	1.88	2	0	36.	0.9	3	0
17.	7191	2	0	37.	0.5	3	0
18.	0.32	1	0	38.	28	3	0
19.	$\frac{11}{15}$	1	0	39.	11 r16; 11.8; $11\frac{16}{20}$; $11\frac{8}{10}$; $11\frac{4}{5}$	3	0
20.	2020	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1

$$12 \times 7 =$$

2

$$76 \div 19 =$$

3Write the fraction
in lowest terms

$$\frac{11}{99} =$$

4

$$\begin{array}{r} 10 \\ \times 16 \\ \hline \end{array}$$

5

$$\begin{array}{r} 280 \\ + 120 \\ \hline \end{array}$$

6Write the fraction
in lowest terms

$$\frac{4}{20} =$$

7

$$\begin{array}{r} 18 \\ \times 9 \\ \hline \end{array}$$

8

$$\begin{array}{r} 0.58 \\ + 0.11 \\ \hline \end{array}$$

9

$$\begin{array}{r} 154 \\ - 146 \\ \hline \end{array}$$

10Write the fraction
in lowest terms

$$\frac{7}{14} =$$

11

$$8 \overline{)84}$$

12

$$\begin{array}{r} 113 \\ \times 23 \\ \hline \end{array}$$

13

$$\begin{array}{r} 432 \\ \times 13 \\ \hline \end{array}$$

14

$$\begin{array}{r} 5.17 \\ + 1.09 \\ \hline \end{array}$$

15

$$14 \overline{)112}$$

16

$$\begin{array}{r} 6.73 \\ - 4.06 \\ \hline \end{array}$$

17

$$\begin{array}{r} 113 \\ \times 25 \\ \hline \end{array}$$

18

$$\begin{array}{r} 0.48 \\ - 0.07 \\ \hline \end{array}$$

19

$$\frac{17}{47} + \frac{4}{47} =$$

20

$$\begin{array}{r} 324 \\ \times 6 \\ \hline \end{array}$$

Student:

Teacher:

Date:

21 $7 \overline{)336}$	22 Convert to fraction $0.33 =$ 	23 $5 \overline{)96}$	24 $\begin{array}{r} 20 \\ \times 0.5 \\ \hline \end{array}$
25 $\begin{array}{r} 243 \\ \times 2 \\ \hline \end{array}$	26 $\frac{4}{11} + \frac{6}{11} =$ 	27 $\frac{8}{20} - \frac{5}{20} =$ 	28 40% of 30 =
29 $\frac{33}{43} - \frac{15}{43} =$ 	30 $\frac{7}{9} \times \frac{4}{5} =$ 	31 $6 \overline{)297}$	32 $\begin{array}{r} 12 \\ \times 2.5 \\ \hline \end{array}$
33 Convert to decimal $\frac{4}{10} =$ 	34 $\frac{3}{5} \times \frac{3}{5} =$ 	35 Convert to fraction $0.67 =$ 	36 $3 \overline{)0.3}$
37 Convert to decimal $\frac{2}{100} =$ 	38 70% of 50 = 	39 $45 \overline{)423}$	

Student:

Teacher:

Date:

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

Grade 5, Probe 19 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	84	1	0	21.	48	1	0
2.	4	1	0	22.	$\frac{33}{100}$	2	0
3.	$\frac{1}{9}$	2	0	23.	19 r1; 19.2; $19\frac{1}{5}$	3	0
4.	160	2	0	24.	10	3	0
5.	400	1	0	25.	486	1	0
6.	$\frac{1}{5}$	3	0	26.	$\frac{10}{11}$	1	0
7.	162	1	0	27.	$\frac{3}{20}$	2	0
8.	0.69	1	0	28.	12	3	0
9.	8	2	0	29.	$\frac{18}{43}$	1	0
10.	$\frac{1}{2}$	2	0	30.	$\frac{28}{45}$	3	0
11.	10 r4; 10.5; $10\frac{4}{8}$; $10\frac{2}{4}$; $10\frac{1}{2}$	2	0	31.	49 r3; 49.5; $49\frac{3}{6}$; $49\frac{1}{2}$	3	0
12.	2599	2	0	32.	30	3	0
13.	5616	2	0	33.	0.4	2	0
14.	6.26	1	0	34.	$\frac{9}{25}$	3	0
15.	8	1	0	35.	$\frac{67}{100}$	1	0
16.	2.67	2	0	36.	0.1	3	0
17.	2825	2	0	37.	0.02	3	0
18.	0.41	1	0	38.	35	3	0
19.	$\frac{21}{47}$	1	0	39.	9 r18; 9.4; $9\frac{18}{45}$; $9\frac{6}{15}$; $9\frac{2}{5}$	3	0
20.	1944	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1

$$14 \times 8 =$$

2

$$95 \div 19 =$$

3Write the fraction
in lowest terms

$$\frac{2}{6} =$$

4

$$\begin{array}{r} 13 \\ \times 13 \\ \hline \end{array}$$

5

$$\begin{array}{r} 370 \\ + 250 \\ \hline \end{array}$$

6Write the fraction
in lowest terms

$$\frac{11}{99} =$$

7

$$\begin{array}{r} 15 \\ \times 6 \\ \hline \end{array}$$

8

$$\begin{array}{r} 0.61 \\ + 0.12 \\ \hline \end{array}$$

9

$$\begin{array}{r} 561 \\ - 545 \\ \hline \end{array}$$

10Write the fraction
in lowest terms

$$\frac{5}{20} =$$

11

$$6 \overline{)51}$$

12

$$\begin{array}{r} 584 \\ \times 11 \\ \hline \end{array}$$

13

$$\begin{array}{r} 210 \\ \times 46 \\ \hline \end{array}$$

14

$$\begin{array}{r} 7.59 \\ + 1.04 \\ \hline \end{array}$$

15

$$18 \overline{)126}$$

16

$$\begin{array}{r} 7.76 \\ - 3.48 \\ \hline \end{array}$$

17

$$\begin{array}{r} 243 \\ \times 32 \\ \hline \end{array}$$

18

$$\begin{array}{r} 0.29 \\ - 0.14 \\ \hline \end{array}$$

19

$$\frac{13}{43} + \frac{8}{43} =$$

20

$$\begin{array}{r} 357 \\ \times 7 \\ \hline \end{array}$$

Student:

Teacher:

Date:

21 $4 \overline{)236}$	22 Convert to fraction $0.19 =$ 	23 $2 \overline{)65}$	24 $\begin{array}{r} 51 \\ \times 0.1 \\ \hline \end{array}$
25 $\begin{array}{r} 231 \\ \times 3 \\ \hline \end{array}$	26 $\frac{2}{11} + \frac{3}{11} =$ 	27 $\frac{26}{33} - \frac{5}{33} =$ 	28 20% of 25 =
29 $\frac{42}{48} - \frac{11}{48} =$ 	30 $\frac{7}{9} \times \frac{2}{3} =$ 	31 $4 \overline{)374}$	32 $\begin{array}{r} 32 \\ \times 3.5 \\ \hline \end{array}$
33 Convert to decimal $\frac{14}{100} =$ 	34 $\frac{3}{7} \times \frac{4}{7} =$ 	35 Convert to fraction $0.79 =$ 	36 $4 \overline{)5.2}$
37 Convert to decimal $\frac{85}{100} =$ 	38 60% of 30 = 	39 $45 \overline{)153}$	

Student:

Teacher:

Date:

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

Grade 5, Probe 20 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	112	1	0	21.	59	1	0
2.	5	1	0	22.	$\frac{19}{100}$	2	0
3.	$\frac{1}{3}$	2	0	23.	32 r1; 32.5; $32\frac{1}{2}$	3	0
4.	169	2	0	24.	5.1	3	0
5.	620	1	0	25.	693	1	0
6.	$\frac{1}{9}$	3	0	26.	$\frac{5}{11}$	1	0
7.	90	1	0	27.	$\frac{21}{33}$	2	0
8.	0.73	1	0	28.	5	3	0
9.	16	2	0	29.	$\frac{31}{48}$	1	0
10.	$\frac{1}{4}$	2	0	30.	$\frac{14}{27}$	3	0
11.	8 r3; 8.5; $8\frac{1}{2}$	2	0	31.	93 r2; 93.5; $93\frac{1}{2}$	3	0
12.	6424	2	0	32.	112	3	0
13.	9660	2	0	33.	0.14	2	0
14.	8.63	1	0	34.	$\frac{12}{49}$	3	0
15.	7	1	0	35.	$\frac{79}{100}$	1	0
16.	4.28	2	0	36.	1.3	3	0
17.	7776	2	0	37.	0.85	3	0
18.	0.15	1	0	38.	18	3	0
19.	$\frac{21}{43}$	1	0	39.	3 r18; 3.4; $3\frac{2}{5}$	3	0
20.	2499	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1 $13 \times 6 =$ 	2 $50 \div 10 =$ 	3 Write the fraction in lowest terms $\frac{4}{8} =$ 	4 $\begin{array}{r} 12 \\ \times 11 \\ \hline \end{array}$
5 $\begin{array}{r} 704 \\ + 107 \\ \hline \end{array}$	6 Write the fraction in lowest terms $\frac{3}{18} =$ 	7 $\begin{array}{r} 14 \\ \times 3 \\ \hline \end{array}$	8 $\begin{array}{r} 0.77 \\ + 0.21 \\ \hline \end{array}$
9 $\begin{array}{r} 655 \\ - 406 \\ \hline \end{array}$	10 Write the fraction in lowest terms $\frac{3}{9} =$ 	11 $6 \overline{)75}$	12 $\begin{array}{r} 102 \\ \times 14 \\ \hline \end{array}$
13 $\begin{array}{r} 213 \\ \times 23 \\ \hline \end{array}$	14 $\begin{array}{r} 6.11 \\ + 1.09 \\ \hline \end{array}$	15 $14 \overline{)140}$	16 $\begin{array}{r} 6.73 \\ - 4.06 \\ \hline \end{array}$
17 $\begin{array}{r} 505 \\ \times 12 \\ \hline \end{array}$	18 $\begin{array}{r} 0.97 \\ - 0.06 \\ \hline \end{array}$	19 $\frac{9}{14} + \frac{2}{14} =$ 	20 $\begin{array}{r} 303 \\ \times 5 \\ \hline \end{array}$

Student:

Teacher:

Date:

21 $4 \overline{)288}$	22 Convert to fraction $0.3 =$ 	23 $5 \overline{)89}$	24 $\begin{array}{r} 11 \\ \times 0.2 \\ \hline \end{array}$
25 $\begin{array}{r} 124 \\ \times 2 \\ \hline \end{array}$	26 $\frac{8}{31} + \frac{7}{31} =$ 	27 $\frac{21}{23} - \frac{10}{23} =$ 	28 10% of 50 =
29 $\frac{20}{29} - \frac{18}{29} =$ 	30 $\frac{4}{9} \times \frac{1}{5} =$ 	31 $6 \overline{)243}$	32 $\begin{array}{r} 25 \\ \times 1.5 \\ \hline \end{array}$
33 Convert to decimal $\frac{2}{10} =$ 	34 $\frac{4}{7} \times \frac{6}{7} =$ 	35 Convert to fraction $0.73 =$ 	36 $5 \overline{)3.5}$
37 Convert to decimal $\frac{1}{4} =$ 	38 50% of 80 = 	39 $52 \overline{)234}$	

Student:

Teacher:

Date:

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

Grade 5, Probe 21 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	78	1	0	21.	72	1	0
2.	5	1	0	22.	$\frac{3}{10}$	2	0
3.	$\frac{1}{2}$	2	0	23.	17 r4; 17.8; $17\frac{4}{5}$	3	0
4.	132	2	0	24.	2.2	3	0
5.	811	1	0	25.	248	1	0
6.	$\frac{1}{6}$	3	0	26.	$\frac{15}{31}$	1	0
7.	42	1	0	27.	$\frac{11}{23}$	2	0
8.	0.98	1	0	28.	5	3	0
9.	249	2	0	29.	$\frac{2}{29}$	1	0
10.	$\frac{1}{3}$	2	0	30.	$\frac{4}{45}$	3	0
11.	12 r3; 12.5; $12\frac{3}{6}$; $12\frac{1}{2}$	2	0	31.	40 r3; 40.5; $40\frac{3}{6}$; $40\frac{1}{2}$	3	0
12.	1428	2	0	32.	37.5	3	0
13.	4899	2	0	33.	0.2	2	0
14.	7.2	1	0	34.	$\frac{24}{49}$	3	0
15.	10	1	0	35.	$\frac{73}{100}$	1	0
16.	2.67	2	0	36.	0.7	3	0
17.	6060	2	0	37.	0.25	3	0
18.	0.91	1	0	38.	40	3	0
19.	$\frac{11}{14}$	1	0	39.	4 r26; 4.5; $4\frac{26}{52}$; $4\frac{1}{2}$	3	0
20.	1515	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1 $14 \times 3 =$ 	2 $75 \div 15 =$ 	3 Write the fraction in lowest terms $\frac{3}{24} =$ 	4 $\begin{array}{r} 13 \\ \times 11 \\ \hline \end{array}$
5 $\begin{array}{r} 306 \\ + 309 \\ \hline \end{array}$	6 Write the fraction in lowest terms $\frac{5}{20} =$ 	7 $\begin{array}{r} 17 \\ \times 2 \\ \hline \end{array}$	8 $\begin{array}{r} 0.67 \\ + 0.11 \\ \hline \end{array}$
9 $\begin{array}{r} 152 \\ - 134 \\ \hline \end{array}$	10 Write the fraction in lowest terms $\frac{2}{26} =$ 	11 $4 \overline{)82}$	12 $\begin{array}{r} 320 \\ \times 32 \\ \hline \end{array}$
13 $\begin{array}{r} 331 \\ \times 20 \\ \hline \end{array}$	14 $\begin{array}{r} 4.14 \\ + 1.08 \\ \hline \end{array}$	15 $19 \overline{)114}$	16 $\begin{array}{r} 8.24 \\ - 3.15 \\ \hline \end{array}$
17 $\begin{array}{r} 240 \\ \times 26 \\ \hline \end{array}$	18 $\begin{array}{r} 0.55 \\ - 0.22 \\ \hline \end{array}$	19 $\frac{7}{35} + \frac{9}{35} =$ 	20 $\begin{array}{r} 142 \\ \times 4 \\ \hline \end{array}$

Student:

Teacher:

Date:

21 $9 \overline{)333}$	22 Convert to fraction $0.01 =$ 	23 $4 \overline{)94}$	24 $\begin{array}{r} 12 \\ \times 0.2 \\ \hline \end{array}$
25 $\begin{array}{r} 203 \\ \times 3 \\ \hline \end{array}$	26 $\frac{2}{13} + \frac{4}{13} =$ 	27 $\frac{30}{36} - \frac{11}{36} =$ 	28 40% of 25 =
29 $\frac{12}{17} - \frac{3}{17} =$ 	30 $\frac{5}{9} \times \frac{1}{2} =$ 	31 $5 \overline{)311}$	32 $\begin{array}{r} 25 \\ \times 3.2 \\ \hline \end{array}$
33 Convert to decimal $\frac{33}{100} =$ 	34 $\frac{5}{9} \times \frac{7}{9} =$ 	35 Convert to fraction $0.3 =$ 	36 $5 \overline{)3.0}$
37 Convert to decimal $\frac{13}{100} =$ 	38 50% of 60 = 	39 $12 \overline{)126}$	

Student:

Teacher:

Date:

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

Grade 5, Probe 22 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	42	1	0	21.	37	1	0
2.	5	1	0	22.	$\frac{1}{100}$	2	0
3.	$\frac{1}{8}$	2	0	23.	23 r2; 23.5; $23\frac{2}{4}$; $23\frac{1}{2}$	3	0
4.	143	2	0	24.	2.4	3	0
5.	615	1	0	25.	609	1	0
6.	$\frac{1}{4}$	3	0	26.	$\frac{6}{13}$	1	0
7.	34	1	0	27.	$\frac{19}{36}$	2	0
8.	0.78	1	0	28.	10	3	0
9.	18	2	0	29.	$\frac{9}{17}$	1	0
10.	$\frac{1}{13}$	2	0	30.	$\frac{5}{18}$	3	0
11.	20 r2; 20.5; $20\frac{2}{4}$; $20\frac{1}{2}$	2	0	31.	62 r1; 62.2; $62\frac{1}{5}$	3	0
12.	10,240	2	0	32.	80	3	0
13.	6620	2	0	33.	0.33	2	0
14.	5.22	1	0	34.	$\frac{35}{81}$	3	0
15.	6	1	0	35.	$\frac{3}{10}$	1	0
16.	5.09	2	0	36.	0.6	3	0
17.	6240	2	0	37.	0.13	3	0
18.	0.33	1	0	38.	30	3	0
19.	$\frac{16}{35}$	1	0	39.	10 r6; 10.5; $10\frac{6}{12}$; $10\frac{3}{6}$; $10\frac{2}{4}$; $10\frac{1}{2}$	3	0
20.	568	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1

$$19 \times 7 =$$

2

$$24 \div 12 =$$

3Write the fraction
in lowest terms

$$\frac{2}{20} =$$

4

$$\begin{array}{r} 14 \\ \times 11 \\ \hline \end{array}$$

5

$$\begin{array}{r} 409 \\ + 502 \\ \hline \end{array}$$

6Write the fraction
in lowest terms

$$\frac{7}{28} =$$

7

$$\begin{array}{r} 16 \\ \times 3 \\ \hline \end{array}$$

8

$$\begin{array}{r} 0.65 \\ + 0.11 \\ \hline \end{array}$$

9

$$\begin{array}{r} 234 \\ - 225 \\ \hline \end{array}$$

10Write the fraction
in lowest terms

$$\frac{11}{33} =$$

11

$$4 \overline{)62}$$

12

$$\begin{array}{r} 514 \\ \times 20 \\ \hline \end{array}$$

13

$$\begin{array}{r} 111 \\ \times 54 \\ \hline \end{array}$$

14

$$\begin{array}{r} 4.57 \\ + 3.06 \\ \hline \end{array}$$

15

$$17 \overline{)119}$$

16

$$\begin{array}{r} 3.94 \\ - 1.77 \\ \hline \end{array}$$

17

$$\begin{array}{r} 530 \\ \times 35 \\ \hline \end{array}$$

18

$$\begin{array}{r} 0.85 \\ - 0.04 \\ \hline \end{array}$$

19

$$\frac{9}{23} + \frac{2}{23} =$$

20

$$\begin{array}{r} 228 \\ \times 4 \\ \hline \end{array}$$

Student:

Teacher:

Date:

21 $5 \overline{)415}$	22 Convert to fraction $0.57 =$ 	23 $6 \overline{)93}$	24 $\begin{array}{r} 45 \\ \times 0.1 \\ \hline \end{array}$
25 $\begin{array}{r} 331 \\ \times 2 \\ \hline \end{array}$	26 $\frac{13}{46} + \frac{8}{46} =$ 	27 $\frac{18}{23} - \frac{6}{23} =$ 	28 30% of 90 =
29 $\frac{25}{26} - \frac{4}{26} =$ 	30 $\frac{2}{3} \times \frac{1}{5} =$ 	31 $6 \overline{)219}$	32 $\begin{array}{r} 25 \\ \times 4.2 \\ \hline \end{array}$
33 Convert to decimal $\frac{2}{10} =$ 	34 $\frac{3}{20} \times \frac{9}{20} =$ 	35 Convert to fraction $0.13 =$ 	36 $2 \overline{)5.2}$
37 Convert to decimal $\frac{75}{100} =$ 	38 10% of 20 = 	39 $22 \overline{)121}$	

Student:

Teacher:

Date:

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

Grade 5, Probe 23 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	133	1	0	21.	83	1	0
2.	2	1	0	22.	$\frac{57}{100}$	2	0
3.	$\frac{1}{10}$	2	0	23.	15 r3; 15.5; $15\frac{3}{6}$; $15\frac{1}{2}$	3	0
4.	154	2	0	24.	4.5	3	0
5.	911	1	0	25.	662	1	0
6.	$\frac{1}{4}$	3	0	26.	$\frac{21}{46}$	1	0
7.	48	1	0	27.	$\frac{12}{23}$	2	0
8.	0.76	1	0	28.	27	3	0
9.	9	2	0	29.	$\frac{21}{26}$	1	0
10.	$\frac{1}{3}$	2	0	30.	$\frac{2}{15}$	3	0
11.	15 r2; 15.5; $15\frac{2}{4}$; $15\frac{1}{2}$	2	0	31.	36 r3; 36.5; $36\frac{3}{6}$; $36\frac{1}{2}$	3	0
12.	10,280	2	0	32.	105	3	0
13.	5994	2	0	33.	0.2	2	0
14.	7.63	1	0	34.	$\frac{27}{400}$	3	0
15.	7	1	0	35.	$\frac{13}{100}$	1	0
16.	2.17	2	0	36.	2.6	3	0
17.	18,550	2	0	37.	0.75	3	0
18.	0.81	1	0	38.	2	3	0
19.	$\frac{11}{23}$	1	0	39.	5 r11; 5.5; $5\frac{11}{22}$; $5\frac{1}{2}$	3	0
20.	912	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1

$$14 \times 6 =$$

2

$$32 \div 16 =$$

3Write the fraction
in lowest terms

$$\frac{3}{21} =$$

4

$$\begin{array}{r} 11 \\ \times 15 \\ \hline \end{array}$$

5

$$\begin{array}{r} 720 \\ + 390 \\ \hline \end{array}$$

6Write the fraction
in lowest terms

$$\frac{2}{22} =$$

7

$$\begin{array}{r} 19 \\ \times 3 \\ \hline \end{array}$$

8

$$\begin{array}{r} 0.56 \\ + 0.13 \\ \hline \end{array}$$

9

$$\begin{array}{r} 132 \\ - 126 \\ \hline \end{array}$$

10Write the fraction
in lowest terms

$$\frac{2}{12} =$$

11

$$5 \overline{)59}$$

12

$$\begin{array}{r} 223 \\ \times 12 \\ \hline \end{array}$$

13

$$\begin{array}{r} 311 \\ \times 25 \\ \hline \end{array}$$

14

$$\begin{array}{r} 7.49 \\ + 1.03 \\ \hline \end{array}$$

15

$$11 \overline{)132}$$

16

$$\begin{array}{r} 8.33 \\ - 2.26 \\ \hline \end{array}$$

17

$$\begin{array}{r} 143 \\ \times 32 \\ \hline \end{array}$$

18

$$\begin{array}{r} 0.87 \\ - 0.03 \\ \hline \end{array}$$

19

$$\frac{21}{49} + \frac{8}{49} =$$

20

$$\begin{array}{r} 132 \\ \times 5 \\ \hline \end{array}$$

Student:

Teacher:

Date:

21 $5 \overline{)295}$	22 Convert to fraction $0.03 =$ 	23 $4 \overline{)50}$	24 $\begin{array}{r} 42 \\ \times 0.2 \\ \hline \end{array}$
25 $\begin{array}{r} 342 \\ \times 2 \\ \hline \end{array}$	26 $\frac{10}{41} + \frac{8}{41} =$ 	27 $\frac{28}{49} - \frac{13}{49} =$ 	28 40% of 55 =
29 $\frac{6}{10} - \frac{3}{10} =$ 	30 $\frac{2}{3} \times \frac{2}{7} =$ 	31 $5 \overline{)479}$	32 $\begin{array}{r} 45 \\ \times 3.2 \\ \hline \end{array}$
33 Convert to decimal $\frac{50}{100} =$ 	34 $\frac{7}{9} \times \frac{8}{9} =$ 	35 Convert to fraction $0.39 =$ 	36 $5 \overline{)0.5}$
37 Convert to decimal $\frac{84}{100} =$ 	38 75% of 20 = 	39 $30 \overline{)363}$	

Student:

Teacher:

Date:

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

Grade 5, Probe 24 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	84	1	0	21.	59	1	0
2.	2	1	0	22.	$\frac{3}{100}$	2	0
3.	$\frac{1}{7}$	2	0	23.	12 r2; 12.5; $12\frac{2}{4}$; $12\frac{1}{2}$	3	0
4.	165	2	0	24.	8.4	3	0
5.	1110	1	0	25.	684	1	0
6.	$\frac{1}{11}$	3	0	26.	$\frac{18}{41}$	1	0
7.	57	1	0	27.	$\frac{15}{49}$	2	0
8.	0.69	1	0	28.	22	3	0
9.	6	2	0	29.	$\frac{3}{10}$	1	0
10.	$\frac{1}{6}$	2	0	30.	$\frac{4}{21}$	3	0
11.	11 r4; 11.8; $11\frac{4}{5}$	2	0	31.	95 r4; 95.8; $95\frac{4}{5}$	3	0
12.	2676	2	0	32.	144	3	0
13.	7775	2	0	33.	0.5	2	0
14.	8.52	1	0	34.	$\frac{56}{81}$	3	0
15.	12	1	0	35.	$\frac{39}{100}$	1	0
16.	6.07	2	0	36.	0.1	3	0
17.	4576	2	0	37.	0.84	3	0
18.	0.84	1	0	38.	15	3	0
19.	$\frac{29}{49}$	1	0	39.	12 r3; 12.1; $12\frac{3}{30}$; $12\frac{1}{10}$	3	0
20.	660	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1 $15 \times 7 =$ 	2 $36 \div 12 =$ 	3 Write the fraction in lowest terms $\frac{2}{8} =$ 	4 $\begin{array}{r} 11 \\ \times 18 \\ \hline \end{array}$
5 $\begin{array}{r} 305 \\ + 208 \\ \hline \end{array}$	6 Write the fraction in lowest terms $\frac{11}{33} =$ 	7 $\begin{array}{r} 19 \\ \times 9 \\ \hline \end{array}$	8 $\begin{array}{r} 0.63 \\ + 0.11 \\ \hline \end{array}$
9 $\begin{array}{r} 245 \\ - 155 \\ \hline \end{array}$	10 Write the fraction in lowest terms $\frac{6}{30} =$ 	11 $5 \overline{)56}$	12 $\begin{array}{r} 111 \\ \times 21 \\ \hline \end{array}$
13 $\begin{array}{r} 441 \\ \times 12 \\ \hline \end{array}$	14 $\begin{array}{r} 8.81 \\ + 5.20 \\ \hline \end{array}$	15 $16 \overline{)128}$	16 $\begin{array}{r} 4.97 \\ - 3.09 \\ \hline \end{array}$
17 $\begin{array}{r} 130 \\ \times 29 \\ \hline \end{array}$	18 $\begin{array}{r} 0.63 \\ - 0.52 \\ \hline \end{array}$	19 $\frac{5}{27} + \frac{9}{27} =$ 	20 $\begin{array}{r} 323 \\ \times 4 \\ \hline \end{array}$

Student:

Teacher:

Date:

21 $7 \overline{)161}$	22 Convert to fraction $0.17 =$ 	23 $4 \overline{)74}$	24 $\begin{array}{r} 50 \\ \times 0.5 \\ \hline \end{array}$
25 $\begin{array}{r} 404 \\ \times 2 \\ \hline \end{array}$	26 $\frac{8}{19} + \frac{10}{19} =$ 	27 $\frac{45}{47} - \frac{15}{47} =$ 	28 70% of 40 =
29 $\frac{19}{24} - \frac{2}{24} =$ 	30 $\frac{3}{5} \times \frac{1}{4} =$ 	31 $4 \overline{)214}$	32 $\begin{array}{r} 15 \\ \times 4.5 \\ \hline \end{array}$
33 Convert to decimal $\frac{29}{100} =$ 	34 $\frac{2}{5} \times \frac{1}{5} =$ 	35 Convert to fraction $0.81 =$ 	36 $2 \overline{)2.0}$
37 Convert to decimal $\frac{80}{100} =$ 	38 20% of 70 = 	39 $50 \overline{)140}$	

Student:

Teacher:

Date:

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

Grade 5, Probe 25 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	105	1	0	21.	23	1	0
2.	3	1	0	22.	$\frac{17}{100}$	2	0
3.	$\frac{1}{4}$	2	0	23.	18 r2; 18.5; $18\frac{2}{4}$; $18\frac{1}{2}$	3	0
4.	198	2	0	24.	25	3	0
5.	513	1	0	25.	808	1	0
6.	$\frac{1}{3}$	3	0	26.	$\frac{18}{19}$	1	0
7.	171	1	0	27.	$\frac{30}{47}$	2	0
8.	0.74	1	0	28.	28	3	0
9.	90	2	0	29.	$\frac{17}{24}$	1	0
10.	$\frac{1}{5}$	2	0	30.	$\frac{3}{20}$	3	0
11.	11 r1; 11.2; $11\frac{1}{5}$	2	0	31.	53 r2; 53.5; $53\frac{2}{4}$; $53\frac{1}{2}$	3	0
12.	2331	2	0	32.	67.5	3	0
13.	5292	2	0	33.	0.29	2	0
14.	14.01	1	0	34.	$\frac{2}{25}$	3	0
15.	8	1	0	35.	$\frac{81}{100}$	1	0
16.	1.88	2	0	36.	1	3	0
17.	3770	2	0	37.	0.8	3	0
18.	0.11	1	0	38.	14	3	0
19.	$\frac{14}{27}$	1	0	39.	2 r40; 2.8; $2\frac{40}{50}$; $2\frac{20}{25}$; $2\frac{4}{5}$	3	0
20.	1292	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1

$$19 \times 2 =$$

2

$$96 \div 12 =$$

3Write the fraction
in lowest terms

$$\frac{3}{6} =$$

4

$$\begin{array}{r} 11 \\ \times 12 \\ \hline \end{array}$$

5

$$\begin{array}{r} 809 \\ + 509 \\ \hline \end{array}$$

6Write the fraction
in lowest terms

$$\frac{8}{24} =$$

7

$$\begin{array}{r} 16 \\ \times 4 \\ \hline \end{array}$$

8

$$\begin{array}{r} 0.61 \\ + 0.18 \\ \hline \end{array}$$

9

$$\begin{array}{r} 634 \\ - 462 \\ \hline \end{array}$$

10Write the fraction
in lowest terms

$$\frac{3}{24} =$$

11

$$4 \overline{)70}$$

12

$$\begin{array}{r} 101 \\ \times 60 \\ \hline \end{array}$$

13

$$\begin{array}{r} 412 \\ \times 40 \\ \hline \end{array}$$

14

$$\begin{array}{r} 6.38 \\ + 1.04 \\ \hline \end{array}$$

15

$$13 \overline{)130}$$

16

$$\begin{array}{r} 5.94 \\ - 3.35 \\ \hline \end{array}$$

17

$$\begin{array}{r} 542 \\ \times 42 \\ \hline \end{array}$$

18

$$\begin{array}{r} 0.25 \\ - 0.04 \\ \hline \end{array}$$

19

$$\frac{17}{43} + \frac{3}{43} =$$

20

$$\begin{array}{r} 414 \\ \times 3 \\ \hline \end{array}$$

Student:

Teacher:

Date:

21 $2 \overline{)172}$	22 Convert to fraction $0.71 =$ 	23 $4 \overline{)74}$	24 $\begin{array}{r} 25 \\ \times 0.1 \\ \hline \end{array}$
25 $\begin{array}{r} 414 \\ \times 2 \\ \hline \end{array}$	26 $\frac{8}{31} + \frac{7}{31} =$ 	27 $\frac{22}{38} - \frac{11}{38} =$ 	28 80% of 10 =
29 $\frac{39}{50} - \frac{16}{50} =$ 	30 $\frac{2}{3} \times \frac{1}{7} =$ 	31 $4 \overline{)294}$	32 $\begin{array}{r} 12 \\ \times 3.5 \\ \hline \end{array}$
33 Convert to decimal $\frac{11}{100} =$ 	34 $\frac{3}{10} \times \frac{3}{10} =$ 	35 Convert to fraction $0.53 =$ 	36 $5 \overline{)5.5}$
37 Convert to decimal $\frac{4}{100} =$ 	38 30% of 60 = 	39 $40 \overline{)456}$	

Student:

Teacher:

Date:

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

Grade 5, Probe 26 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	38	1	0	21.	86	1	0
2.	8	1	0	22.	$\frac{71}{100}$	2	0
3.	$\frac{1}{2}$	2	0	23.	18 r2; 18.5; $18\frac{2}{4}$; $18\frac{1}{2}$	3	0
4.	132	2	0	24.	2.5	3	0
5.	1318	1	0	25.	828	1	0
6.	$\frac{1}{3}$	3	0	26.	$\frac{15}{31}$	1	0
7.	64	1	0	27.	$\frac{11}{38}$	2	0
8.	0.79	1	0	28.	8	3	0
9.	172	2	0	29.	$\frac{23}{50}$	1	0
10.	$\frac{1}{8}$	2	0	30.	$\frac{2}{21}$	3	0
11.	17 r2; 17.5; $17\frac{2}{4}$; $17\frac{1}{2}$	2	0	31.	73 r2; 73.5; $73\frac{2}{4}$; $73\frac{1}{2}$	3	0
12.	6060	2	0	32.	42	3	0
13.	16,480	2	0	33.	0.11	2	0
14.	7.42	1	0	34.	$\frac{9}{100}$	3	0
15.	10	1	0	35.	$\frac{53}{100}$	1	0
16.	2.59	2	0	36.	1.1	3	0
17.	22,764	2	0	37.	0.04	3	0
18.	0.21	1	0	38.	18	3	0
19.	$\frac{20}{43}$	1	0	39.	11 r16; 11.4; $11\frac{16}{40}$; $11\frac{8}{20}$; $11\frac{2}{5}$	3	0
20.	1242	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1 $18 \times 3 =$ 	2 $45 \div 15 =$ 	3 Write the fraction in lowest terms $\frac{2}{14} =$ 	4 $\begin{array}{r} 10 \\ \times 16 \\ \hline \end{array}$
5 $\begin{array}{r} 850 \\ + 780 \\ \hline \end{array}$	6 Write the fraction in lowest terms $\frac{3}{12} =$ 	7 $\begin{array}{r} 12 \\ \times 6 \\ \hline \end{array}$	8 $\begin{array}{r} 0.74 \\ + 0.14 \\ \hline \end{array}$
9 $\begin{array}{r} 215 \\ - 161 \\ \hline \end{array}$	10 Write the fraction in lowest terms $\frac{4}{24} =$ 	11 $2 \overline{)73}$	12 $\begin{array}{r} 210 \\ \times 55 \\ \hline \end{array}$
13 $\begin{array}{r} 219 \\ \times 11 \\ \hline \end{array}$	14 $\begin{array}{r} 4.12 \\ + 1.08 \\ \hline \end{array}$	15 $10 \overline{)120}$	16 $\begin{array}{r} 2.95 \\ - 1.56 \\ \hline \end{array}$
17 $\begin{array}{r} 512 \\ \times 53 \\ \hline \end{array}$	18 $\begin{array}{r} 0.65 \\ - 0.23 \\ \hline \end{array}$	19 $\frac{17}{20} + \frac{2}{20} =$ 	20 $\begin{array}{r} 269 \\ \times 2 \\ \hline \end{array}$

Student:

Teacher:

Date:

21 $2 \overline{)156}$	22 Convert to fraction $0.29 =$ 	23 $4 \overline{)78}$	24 $\begin{array}{r} 20 \\ \times 0.1 \\ \hline \end{array}$
25 $\begin{array}{r} 222 \\ \times 4 \\ \hline \end{array}$	26 $\frac{18}{36} + \frac{5}{36} =$ 	27 $\frac{45}{46} - \frac{14}{46} =$ 	28 $50\% \text{ of } 10 =$
29 $\frac{23}{39} - \frac{4}{39} =$ 	30 $\frac{4}{5} \times \frac{2}{3} =$ 	31 $5 \overline{)423}$	32 $\begin{array}{r} 35 \\ \times 4.5 \\ \hline \end{array}$
33 Convert to decimal $\frac{2}{8} =$ 	34 $\frac{3}{20} \times \frac{7}{20} =$ 	35 Convert to fraction $0.9 =$ 	36 $3 \overline{)2.4}$
37 Convert to decimal $\frac{28}{100} =$ 	38 $60\% \text{ of } 15 =$ 	39 $12 \overline{)414}$	

Student:

Teacher:

Date:

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

Grade 5, Probe 27 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	54	1	0	21.	78	1	0
2.	3	1	0	22.	$\frac{29}{100}$	2	0
3.	$\frac{1}{7}$	2	0	23.	19 r2; 19.5; $19\frac{2}{4}$; $19\frac{1}{2}$	3	0
4.	160	2	0	24.	2	3	0
5.	1630	1	0	25.	888	1	0
6.	$\frac{1}{4}$	3	0	26.	$\frac{23}{36}$	1	0
7.	72	1	0	27.	$\frac{31}{46}$	2	0
8.	0.88	1	0	28.	5	3	0
9.	54	2	0	29.	$\frac{19}{39}$	1	0
10.	$\frac{1}{6}$	2	0	30.	$\frac{8}{15}$	3	0
11.	36 r1; 36.5; $36\frac{1}{2}$	2	0	31.	84 r3; 84.6; $84\frac{3}{5}$	3	0
12.	11,550	2	0	32.	157.5	3	0
13.	2409	2	0	33.	0.25	2	0
14.	5.2	1	0	34.	$\frac{21}{400}$	3	0
15.	12	1	0	35.	$\frac{9}{10}$	1	0
16.	1.39	2	0	36.	0.8	3	0
17.	27,136	2	0	37.	0.28	3	0
18.	0.42	1	0	38.	9	3	0
19.	$\frac{19}{20}$	1	0	39.	34 r6; 34.5; $34\frac{6}{12}$; $34\frac{3}{6}$; $34\frac{2}{4}$; $34\frac{1}{2}$	3	0
20.	538	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1 $15 \times 8 =$ 	2 $90 \div 18 =$ 	3 Write the fraction in lowest terms $\frac{2}{4} =$ 	4 $\begin{array}{r} 12 \\ \times 11 \\ \hline \end{array}$
5 $\begin{array}{r} 550 \\ + 390 \\ \hline \end{array}$	6 Write the fraction in lowest terms $\frac{3}{9} =$ 	7 $\begin{array}{r} 16 \\ \times 9 \\ \hline \end{array}$	8 $\begin{array}{r} 0.65 \\ + 0.12 \\ \hline \end{array}$
9 $\begin{array}{r} 425 \\ - 234 \\ \hline \end{array}$	10 Write the fraction in lowest terms $\frac{2}{16} =$ 	11 $8 \overline{)68}$	12 $\begin{array}{r} 422 \\ \times 41 \\ \hline \end{array}$
13 $\begin{array}{r} 522 \\ \times 32 \\ \hline \end{array}$	14 $\begin{array}{r} 7.18 \\ + 1.02 \\ \hline \end{array}$	15 $14 \overline{)112}$	16 $\begin{array}{r} 7.98 \\ - 5.59 \\ \hline \end{array}$
17 $\begin{array}{r} 145 \\ \times 20 \\ \hline \end{array}$	18 $\begin{array}{r} 0.99 \\ - 0.09 \\ \hline \end{array}$	19 $\frac{5}{32} + \frac{12}{32} =$ 	20 $\begin{array}{r} 344 \\ \times 3 \\ \hline \end{array}$

Student:

Teacher:

Date:

21 $2 \overline{)132}$	22 Convert to fraction $0.61 =$ 	23 $5 \overline{)52}$	24 $\begin{array}{r} 31 \\ \times 0.1 \\ \hline \end{array}$
25 $\begin{array}{r} 142 \\ \times 2 \\ \hline \end{array}$	26 $\frac{3}{19} + \frac{2}{19} =$ 	27 $\frac{37}{40} - \frac{4}{40} =$ 	28 20% of 95 =
29 $\frac{29}{32} - \frac{2}{32} =$ 	30 $\frac{3}{8} \times \frac{1}{5} =$ 	31 $6 \overline{)417}$	32 $\begin{array}{r} 22 \\ \times 2.5 \\ \hline \end{array}$
33 Convert to decimal $\frac{81}{100} =$ 	34 $\frac{3}{10} \times \frac{9}{10} =$ 	35 Convert to fraction $0.91 =$ 	36 $2 \overline{)1.2}$
37 Convert to decimal $\frac{6}{100} =$ 	38 75% of 40 = 	39 $35 \overline{)133}$	

Student:

Teacher:

Date:

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

Grade 5, Probe 28 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	120	1	0	21.	66	1	0
2.	5	1	0	22.	$\frac{61}{100}$	2	0
3.	$\frac{1}{2}$	2	0	23.	10 r2; 10.4; $10\frac{2}{5}$	3	0
4.	132	2	0	24.	3.1	3	0
5.	940	1	0	25.	284	1	0
6.	$\frac{1}{3}$	3	0	26.	$\frac{5}{19}$	1	0
7.	144	1	0	27.	$\frac{33}{40}$	2	0
8.	0.77	1	0	28.	19	3	0
9.	191	2	0	29.	$\frac{27}{32}$	1	0
10.	$\frac{1}{8}$	2	0	30.	$\frac{3}{40}$	3	0
11.	8 r4; 8.5; $8\frac{4}{8}$; $8\frac{2}{4}$; $8\frac{1}{2}$	2	0	31.	69 r3; 69.5; $69\frac{3}{6}$; $69\frac{1}{2}$	3	0
12.	17,302	2	0	32.	55	3	0
13.	16,704	2	0	33.	0.81	2	0
14.	8.2	1	0	34.	$\frac{27}{100}$	3	0
15.	8	1	0	35.	$\frac{91}{100}$	1	0
16.	2.39	2	0	36.	0.6	3	0
17.	2900	2	0	37.	0.06	3	0
18.	0.9	1	0	38.	30	3	0
19.	$\frac{17}{32}$	1	0	39.	3 r28; 3.8; $3\frac{28}{35}$; $3\frac{4}{5}$	3	0
20.	1032	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1 $13 \times 8 =$ 	2 $38 \div 19 =$ 	3 Write the fraction in lowest terms $\frac{11}{44} =$ 	4 $\begin{array}{r} 12 \\ \times 10 \\ \hline \end{array}$
5 $\begin{array}{r} 207 \\ + 208 \\ \hline \end{array}$	6 Write the fraction in lowest terms $\frac{2}{14} =$ 	7 $\begin{array}{r} 16 \\ \times 6 \\ \hline \end{array}$	8 $\begin{array}{r} 0.76 \\ + 0.12 \\ \hline \end{array}$
9 $\begin{array}{r} 256 \\ - 164 \\ \hline \end{array}$	10 Write the fraction in lowest terms $\frac{3}{18} =$ 	11 $6 \overline{)99}$	12 $\begin{array}{r} 512 \\ \times 22 \\ \hline \end{array}$
13 $\begin{array}{r} 411 \\ \times 31 \\ \hline \end{array}$	14 $\begin{array}{r} 6.52 \\ + 1.09 \\ \hline \end{array}$	15 $15 \overline{)120}$	16 $\begin{array}{r} 4.53 \\ - 1.27 \\ \hline \end{array}$
17 $\begin{array}{r} 161 \\ \times 15 \\ \hline \end{array}$	18 $\begin{array}{r} 0.66 \\ - 0.54 \\ \hline \end{array}$	19 $\frac{13}{51} + \frac{7}{51} =$ 	20 $\begin{array}{r} 157 \\ \times 4 \\ \hline \end{array}$

Student:

Teacher:

Date:

21 $9 \overline{)315}$	22 Convert to fraction $0.29 =$ 	23 $5 \overline{)49}$	24 $\begin{array}{r} 21 \\ \times 0.1 \\ \hline \end{array}$
25 $\begin{array}{r} 304 \\ \times 2 \\ \hline \end{array}$	26 $\frac{22}{31} + \frac{3}{31} =$ 	27 $\frac{15}{21} - \frac{7}{21} =$ 	28 $20\% \text{ of } 30 =$
29 $\frac{16}{17} - \frac{5}{17} =$ 	30 $\frac{2}{3} \times \frac{1}{9} =$ 	31 $6 \overline{)285}$	32 $\begin{array}{r} 35 \\ \times 1.2 \\ \hline \end{array}$
33 Convert to decimal $\frac{78}{100} =$ 	34 $\frac{2}{7} \times \frac{3}{7} =$ 	35 Convert to fraction $0.43 =$ 	36 $4 \overline{)2.4}$
37 Convert to decimal $\frac{9}{10} =$ 	38 $60\% \text{ of } 40 =$ 	39 $50 \overline{)430}$	

Student:

Teacher:

Date:

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

Grade 5, Probe 29 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	104	1	0	21.	35	1	0
2.	2	1	0	22.	$\frac{29}{100}$	2	0
3.	$\frac{1}{4}$	2	0	23.	9 r4; 9.8; $9\frac{4}{5}$	3	0
4.	120	2	0	24.	2.1	3	0
5.	415	1	0	25.	608	1	0
6.	$\frac{1}{7}$	3	0	26.	$\frac{25}{31}$	1	0
7.	96	1	0	27.	$\frac{8}{21}$	2	0
8.	0.88	1	0	28.	6	3	0
9.	92	2	0	29.	$\frac{11}{17}$	1	0
10.	$\frac{1}{6}$	2	0	30.	$\frac{2}{27}$	3	0
11.	16 r3; 16.5; $16\frac{3}{6}$; $16\frac{1}{2}$	2	0	31.	47 r3; 47.5; $47\frac{3}{6}$; $47\frac{1}{2}$	3	0
12.	11,264	2	0	32.	42	3	0
13.	12,741	2	0	33.	0.78	2	0
14.	7.61	1	0	34.	$\frac{6}{49}$	3	0
15.	8	1	0	35.	$\frac{43}{100}$	1	0
16.	3.26	2	0	36.	0.6	3	0
17.	2415	2	0	37.	0.9	3	0
18.	0.12	1	0	38.	24	3	0
19.	$\frac{20}{51}$	1	0	39.	8 r30; 8.6; $8\frac{30}{50}$; $8\frac{15}{25}$; $8\frac{3}{5}$	3	0
20.	628	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1 $15 \times 3 =$ 	2 $48 \div 16 =$ 	3 Write the fraction in lowest terms $\frac{11}{66} =$ 	4 $\begin{array}{r} 14 \\ \times 11 \\ \hline \end{array}$
5 $\begin{array}{r} 608 \\ + 309 \\ \hline \end{array}$	6 Write the fraction in lowest terms $\frac{2}{26} =$ 	7 $\begin{array}{r} 19 \\ \times 8 \\ \hline \end{array}$	8 $\begin{array}{r} 0.56 \\ + 0.12 \\ \hline \end{array}$
9 $\begin{array}{r} 226 \\ - 151 \\ \hline \end{array}$	10 Write the fraction in lowest terms $\frac{9}{18} =$ 	11 $4 \overline{)58}$	12 $\begin{array}{r} 412 \\ \times 40 \\ \hline \end{array}$
13 $\begin{array}{r} 211 \\ \times 29 \\ \hline \end{array}$	14 $\begin{array}{r} 5.46 \\ + 1.07 \\ \hline \end{array}$	15 $13 \overline{)117}$	16 $\begin{array}{r} 3.85 \\ - 2.59 \\ \hline \end{array}$
17 $\begin{array}{r} 224 \\ \times 23 \\ \hline \end{array}$	18 $\begin{array}{r} 0.56 \\ - 0.02 \\ \hline \end{array}$	19 $\frac{23}{50} + \frac{4}{50} =$ 	20 $\begin{array}{r} 424 \\ \times 9 \\ \hline \end{array}$

Student:

Teacher:

Date:

21 $6 \overline{)384}$	22 Convert to fraction $0.87 =$ 	23 $2 \overline{)75}$	24 $\begin{array}{r} 15 \\ \times 0.1 \\ \hline \end{array}$
25 $\begin{array}{r} 214 \\ \times 2 \\ \hline \end{array}$	26 $\frac{4}{12} + \frac{3}{12} =$ 	27 $\frac{8}{15} - \frac{6}{15} =$ 	28 $30\% \text{ of } 30 =$
29 $\frac{35}{38} - \frac{6}{38} =$ 	30 $\frac{2}{7} \times \frac{1}{9} =$ 	31 $5 \overline{)463}$	32 $\begin{array}{r} 52 \\ \times 3.5 \\ \hline \end{array}$
33 Convert to decimal $\frac{6}{10} =$ 	34 $\frac{7}{10} \times \frac{9}{10} =$ 	35 Convert to fraction $0.9 =$ 	36 $2 \overline{)3.4}$
37 Convert to decimal $\frac{53}{100} =$ 	38 $80\% \text{ of } 45 =$ 	39 $22 \overline{)253}$	

Student:

Teacher:

Date:

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

Grade 5, Probe 30 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	45	1	0	21.	64	1	0
2.	3	1	0	22.	$\frac{87}{100}$	2	0
3.	$\frac{1}{6}$	2	0	23.	37 r1; 37.5; $37\frac{1}{2}$	3	0
4.	154	2	0	24.	1.5	3	0
5.	917	1	0	25.	428	1	0
6.	$\frac{1}{13}$	3	0	26.	$\frac{7}{12}$	1	0
7.	152	1	0	27.	$\frac{2}{15}$	2	0
8.	0.68	1	0	28.	9	3	0
9.	75	2	0	29.	$\frac{29}{38}$	1	0
10.	$\frac{1}{2}$	2	0	30.	$\frac{2}{63}$	3	0
11.	14 r2; 14.5; $14\frac{2}{4}$; $14\frac{1}{2}$	2	0	31.	92 r3; 92.6; $92\frac{3}{5}$	3	0
12.	16,480	2	0	32.	182	3	0
13.	6119	2	0	33.	0.6	2	0
14.	6.53	1	0	34.	$\frac{63}{100}$	3	0
15.	9	1	0	35.	$\frac{9}{10}$	1	0
16.	1.26	2	0	36.	1.7	3	0
17.	5152	2	0	37.	0.53	3	0
18.	0.54	1	0	38.	36	3	0
19.	$\frac{27}{50}$	1	0	39.	11 r11; 11.5; $11\frac{11}{22}$; $11\frac{1}{2}$	3	0
20.	3816	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1

$$14 \times 7 =$$

2

$$90 \div 15 =$$

3Write the fraction
in lowest terms

$$\frac{7}{28} =$$

4

$$\begin{array}{r} 18 \\ \times 10 \\ \hline \end{array}$$

5

$$\begin{array}{r} 401 \\ + 409 \\ \hline \end{array}$$

6Write the fraction
in lowest terms

$$\frac{3}{18} =$$

7

$$\begin{array}{r} 19 \\ \times 8 \\ \hline \end{array}$$

8

$$\begin{array}{r} 0.73 \\ + 0.14 \\ \hline \end{array}$$

9

$$\begin{array}{r} 255 \\ - 206 \\ \hline \end{array}$$

10Write the fraction
in lowest terms

$$\frac{2}{22} =$$

11

$$5 \overline{)79}$$

12

$$\begin{array}{r} 220 \\ \times 13 \\ \hline \end{array}$$

13

$$\begin{array}{r} 301 \\ \times 50 \\ \hline \end{array}$$

14

$$\begin{array}{r} 6.48 \\ + 1.05 \\ \hline \end{array}$$

15

$$11 \overline{)110}$$

16

$$\begin{array}{r} 3.63 \\ - 1.34 \\ \hline \end{array}$$

17

$$\begin{array}{r} 216 \\ \times 60 \\ \hline \end{array}$$

18

$$\begin{array}{r} 0.52 \\ - 0.31 \\ \hline \end{array}$$

19

$$\frac{11}{44} + \frac{8}{44} =$$

20

$$\begin{array}{r} 227 \\ \times 4 \\ \hline \end{array}$$

Student:

Teacher:

Date:

21 $9 \overline{)459}$	22 Convert to fraction $0.21 =$ 	23 $5 \overline{)83}$	24 $\begin{array}{r} 40 \\ \times 0.1 \\ \hline \end{array}$
25 $\begin{array}{r} 123 \\ \times 3 \\ \hline \end{array}$	26 $\frac{18}{42} + \frac{5}{42} =$ 	27 $\frac{12}{15} - \frac{5}{15} =$ 	28 70% of 30 =
29 $\frac{27}{45} - \frac{8}{45} =$ 	30 $\frac{3}{4} \times \frac{1}{8} =$ 	31 $8 \overline{)346}$	32 $\begin{array}{r} 32 \\ \times 4.5 \\ \hline \end{array}$
33 Convert to decimal $\frac{25}{100} =$ 	34 $\frac{2}{9} \times \frac{4}{9} =$ 	35 Convert to fraction $0.73 =$ 	36 $2 \overline{)5.4}$
37 Convert to decimal $\frac{15}{100} =$ 	38 80% of 25 = 	39 $40 \overline{)124}$	

Student:

Teacher:

Date:

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

Grade 5, Probe 31 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	98	1	0	21.	51	1	0
2.	6	1	0	22.	$\frac{21}{100}$	2	0
3.	$\frac{1}{4}$	2	0	23.	16 r3; 16.6; $16\frac{3}{5}$	3	0
4.	180	2	0	24.	4	3	0
5.	810	1	0	25.	369	1	0
6.	$\frac{1}{6}$	3	0	26.	$\frac{23}{42}$	1	0
7.	152	1	0	27.	$\frac{7}{15}$	2	0
8.	0.87	1	0	28.	21	3	0
9.	49	2	0	29.	$\frac{19}{45}$	1	0
10.	$\frac{1}{11}$	2	0	30.	$\frac{3}{32}$	3	0
11.	15 r4; 15.8; $15\frac{4}{5}$	2	0	31.	43 r2; 43.25; $43\frac{2}{8}$; $43\frac{1}{4}$	3	0
12.	2860	2	0	32.	144	3	0
13.	15,050	2	0	33.	0.25	2	0
14.	7.53	1	0	34.	$\frac{8}{81}$	3	0
15.	10	1	0	35.	$\frac{73}{100}$	1	0
16.	2.29	2	0	36.	2.7	3	0
17.	12,960	2	0	37.	0.15	3	0
18.	0.21	1	0	38.	20	3	0
19.	$\frac{19}{44}$	1	0	39.	3 r4; 3.1; $3\frac{4}{40}$; $3\frac{1}{10}$	3	0
20.	908	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1 $16 \times 5 =$ _____	2 $98 \div 14 =$ _____	3 Write the fraction in lowest terms $\frac{11}{33} =$ _____	4 $\begin{array}{r} 12 \\ \times 13 \\ \hline \end{array}$
5 $\begin{array}{r} 306 \\ + 309 \\ \hline \end{array}$	6 Write the fraction in lowest terms $\frac{2}{22} =$ _____	7 $\begin{array}{r} 17 \\ \times 8 \\ \hline \end{array}$	8 $\begin{array}{r} 0.87 \\ + 0.12 \\ \hline \end{array}$
9 $\begin{array}{r} 162 \\ - 124 \\ \hline \end{array}$	10 Write the fraction in lowest terms $\frac{5}{20} =$ _____	11 $5 \overline{)59}$	12 $\begin{array}{r} 222 \\ \times 20 \\ \hline \end{array}$
13 $\begin{array}{r} 510 \\ \times 24 \\ \hline \end{array}$	14 $\begin{array}{r} 4.35 \\ + 1.08 \\ \hline \end{array}$	15 $13 \overline{)117}$	16 $\begin{array}{r} 4.52 \\ - 3.16 \\ \hline \end{array}$
17 $\begin{array}{r} 151 \\ \times 61 \\ \hline \end{array}$	18 $\begin{array}{r} 0.98 \\ - 0.05 \\ \hline \end{array}$	19 $\frac{19}{38} + \frac{4}{38} =$ _____	20 $\begin{array}{r} 342 \\ \times 4 \\ \hline \end{array}$

Student:

Teacher:

Date:

21 $7 \overline{)385}$	22 Convert to fraction $0.41 =$ 	23 $6 \overline{)51}$	24 $\begin{array}{r} 41 \\ \times 0.2 \\ \hline \end{array}$
25 $\begin{array}{r} 134 \\ \times 2 \\ \hline \end{array}$	26 $\frac{9}{17} + \frac{2}{17} =$ 	27 $\frac{20}{29} - \frac{18}{29} =$ 	28 70% of 90 =
29 $\frac{29}{40} - \frac{12}{40} =$ 	30 $\frac{2}{9} \times \frac{1}{7} =$ 	31 $8 \overline{)266}$	32 $\begin{array}{r} 35 \\ \times 1.2 \\ \hline \end{array}$
33 Convert to decimal $\frac{1}{10} =$ 	34 $\frac{3}{7} \times \frac{4}{7} =$ 	35 Convert to fraction $0.31 =$ 	36 $3 \overline{)3.3}$
37 Convert to decimal $\frac{95}{100} =$ 	38 20% of 60 = 	39 $42 \overline{)105}$	

Student:

Teacher:

Date:

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

Grade 5, Probe 32 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	80	1	0	21.	55	1	0
2.	7	1	0	22.	$\frac{41}{100}$	2	0
3.	$\frac{1}{3}$	2	0	23.	8 r3; 8.5; $8\frac{3}{6}$; $8\frac{1}{2}$	3	0
4.	156	2	0	24.	8.2	3	0
5.	615	1	0	25.	268	1	0
6.	$\frac{1}{11}$	3	0	26.	$\frac{11}{17}$	1	0
7.	136	1	0	27.	$\frac{2}{29}$	2	0
8.	0.99	1	0	28.	63	3	0
9.	38	2	0	29.	$\frac{17}{40}$	1	0
10.	$\frac{1}{4}$	2	0	30.	$\frac{2}{63}$	3	0
11.	11 r4; 11.8; $11\frac{4}{5}$	2	0	31.	33 r2; 33.25; $33\frac{2}{8}$; $33\frac{1}{4}$	3	0
12.	4440	2	0	32.	42	3	0
13.	12,240	2	0	33.	0.1	2	0
14.	5.43	1	0	34.	$\frac{12}{49}$	3	0
15.	9	1	0	35.	$\frac{31}{100}$	1	0
16.	1.36	2	0	36.	1.1	3	0
17.	9211	2	0	37.	0.95	3	0
18.	0.93	1	0	38.	12	3	0
19.	$\frac{23}{38}$	1	0	39.	2 r21; 2.5; $2\frac{21}{42}$; $2\frac{7}{14}$; $2\frac{3}{6}$; $2\frac{1}{2}$	3	0
20.	1368	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

1 $16 \times 5 =$ 	2 $48 \div 12 =$ 	3 Write the fraction in lowest terms $\frac{2}{18} =$ 	4 $\begin{array}{r} 10 \\ \times 13 \\ \hline \end{array}$
5 $\begin{array}{r} 540 \\ + 280 \\ \hline \end{array}$	6 Write the fraction in lowest terms $\frac{3}{27} =$ 	7 $\begin{array}{r} 17 \\ \times 8 \\ \hline \end{array}$	8 $\begin{array}{r} 0.64 \\ + 0.11 \\ \hline \end{array}$
9 $\begin{array}{r} 361 \\ - 156 \\ \hline \end{array}$	10 Write the fraction in lowest terms $\frac{2}{6} =$ 	11 $5 \overline{)64}$	12 $\begin{array}{r} 132 \\ \times 32 \\ \hline \end{array}$
13 $\begin{array}{r} 422 \\ \times 20 \\ \hline \end{array}$	14 $\begin{array}{r} 5.26 \\ + 1.05 \\ \hline \end{array}$	15 $20 \overline{)140}$	16 $\begin{array}{r} 4.95 \\ - 2.76 \\ \hline \end{array}$
17 $\begin{array}{r} 114 \\ \times 51 \\ \hline \end{array}$	18 $\begin{array}{r} 0.54 \\ - 0.03 \\ \hline \end{array}$	19 $\frac{4}{38} + \frac{9}{38} =$ 	20 $\begin{array}{r} 257 \\ \times 6 \\ \hline \end{array}$

Student:

Teacher:

Date:

21 $5 \overline{)375}$	22 Convert to fraction $0.09 =$ 	23 $6 \overline{)93}$	24 $\begin{array}{r} 30 \\ \times 0.2 \\ \hline \end{array}$
25 $\begin{array}{r} 124 \\ \times 2 \\ \hline \end{array}$	26 $\frac{5}{11} + \frac{3}{11} =$ 	27 $\frac{36}{37} - \frac{5}{37} =$ 	28 40% of 75 =
29 $\frac{41}{43} - \frac{3}{43} =$ 	30 $\frac{8}{9} \times \frac{2}{7} =$ 	31 $4 \overline{)238}$	32 $\begin{array}{r} 55 \\ \times 4.2 \\ \hline \end{array}$
33 Convert to decimal $\frac{14}{100} =$ 	34 $\frac{5}{9} \times \frac{4}{9} =$ 	35 Convert to fraction $0.91 =$ 	36 $2 \overline{)4.0}$
37 Convert to decimal $\frac{1}{100} =$ 	38 50% of 30 = 	39 $10 \overline{)235}$	

Student:

Teacher:

Date:

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Grade 5, Probe 33 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	80	1	0	21.	75	1	0
2.	4	1	0	22.	$\frac{9}{100}$	2	0
3.	$\frac{1}{9}$	2	0	23.	15 r3; 15.5; $15\frac{3}{6}$; $15\frac{1}{2}$	3	0
4.	130	2	0	24.	6	3	0
5.	820	1	0	25.	248	1	0
6.	$\frac{1}{9}$	3	0	26.	$\frac{8}{11}$	1	0
7.	136	1	0	27.	$\frac{31}{37}$	2	0
8.	0.75	1	0	28.	30	3	0
9.	205	2	0	29.	$\frac{38}{43}$	1	0
10.	$\frac{1}{3}$	2	0	30.	$\frac{16}{63}$	3	0
11.	12 r4; 12.8; $12\frac{4}{5}$	2	0	31.	59 r2; 59.5; $59\frac{2}{4}$; $59\frac{1}{2}$	3	0
12.	4224	2	0	32.	231	3	0
13.	8440	2	0	33.	0.14	2	0
14.	6.31	1	0	34.	$\frac{20}{81}$	3	0
15.	7	1	0	35.	$\frac{91}{100}$	1	0
16.	2.19	2	0	36.	2	3	0
17.	5814	2	0	37.	0.01	3	0
18.	0.51	1	0	38.	15	3	0
19.	$\frac{13}{38}$	1	0	39.	23 r5; 23.5; $23\frac{5}{10}$; $23\frac{1}{2}$	3	0
20.	1542	2	0				

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2