$$5^2 =$$

2 Solve for x

$$14 + x = 31$$

3

$$4^3 =$$

Solve for *x*

$$4x = 56$$

$$x \div 5 = 6$$

-21 - -2 + 16 =

Solve for x

$$2x = 94$$

$$\bigcirc$$
 Solve for x

$$x - 32 = 5$$

$$0.39 =$$

Convert to

 $\frac{9}{10} =$

decimal

Convert to

0.7 =

fraction

14

15 Write fraction as mixed number

$$\frac{11}{4} =$$

16

17

13

18 Solve for *x*

$$6 = 2x + 2$$

19 Write fraction as mixed number

$$\frac{7}{6}$$
 =

20 Write the answer in lowest terms

$$\frac{1}{4} \bullet \frac{3}{10} =$$

35% of 40=

Write the answer in lowest terms

$$\frac{7}{2} \bullet \frac{6}{11} =$$

23 Solve for
$$x$$

$$90 = 9x + 9$$

15³ =

125% of 144=

 $\begin{array}{c} 1.022 \\ \times \ 0.14 \end{array}$

1.24 × 0.1

29

110% of 160=

30 Convert to decimal

$$\frac{5}{8} =$$

Write the answer in lowest terms

$$\frac{4}{5} \div \frac{8}{9} =$$

32

0.3 0.21

Write the answer in lowest terms

$$3\frac{5}{13}$$
 + $2\frac{2}{13}$

2.2 2.42

Write the answer in lowest terms

$$6 \frac{3}{5} \\
-5 \frac{1}{15}$$

36 Solve for x

$$\frac{X}{2} = 24$$

$$5\frac{1}{2} \cdot 4\frac{2}{3} =$$

Write the answer in lowest terms

$$\frac{7}{9} \div \frac{3}{7} =$$

Write the answer in lowest terms

$$2\frac{5}{7}$$
 + $3\frac{5}{14}$

Write the answer in lowest terms

$$6\frac{3}{6}$$
 $-3\frac{2}{6}$

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. NOTE: Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M–COMP manual.

Grade 8, Probe 22 Answer Key

Grade 8, Probe 22 Answer Key								
Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect	
1.	25	1	0	21.	14	3	0	
2.	17	1	0	22.	$1\frac{10}{11}$	2	0	
3.	- 52	1	0	23.	9	2	0	
4.	64	1	0	24.	22	3	0	
5.	14	1	0	25.	3375	3	0	
6.	15	1	0	26.	180	3	0	
7.	-3	2	0	27.	0.14308	3	0	
8.	30	1	0	28.	0.124	2	0	
9.	47	1	0	29.	176	3	0	
10.	37	1	0	30.	0.625	3	0	
11.	39 100	1	0	31.	9 10	3	0	
12.	- 26	1	0	32.	0.7	3	0	
13.	0.9	1	0	33.	5 7/13	2	0	
14.	$\frac{7}{10}$	1	0	34.	1.1	3	0	
15.	$2\frac{3}{4}$	2	0	35.	$1\frac{8}{15}$	3	0	
16.	256	2	0	36.	48	2	0	
17.	14	2	0	37.	$25\frac{2}{3}$	3	0	
18.	2	1	0	38.	$1\frac{22}{27}$	3	0	
19.	$1\frac{1}{6}$	2	0	39.	$6\frac{1}{14}$	3	0	
20.	$\frac{3}{40}$	2	0	40.	$3\frac{1}{6}$	2	0	
Subtotal 1					Subtotal 2			

TOTAL = Subtotal 1 + Subtotal 2	
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