Fill in each blank.

1. If $24 = 4 \times 6$, then 24 is ___ times as many as 6.

2. If $15 = 3 \times 5$, then 15 is ___ times as many as 5.

3. The equation $32 = 8 \times 4$ means 32 is 8 times as many as ___.

4. If a bag has 6 candies and another has 3 times as many, the second bag has ___ candies.

5. If $40 = 5 \times 8$, then 5 times as many as 8 is ___.

Choose the correct answer from the choices for each question.

6. What does the equation $21 = 7 \times 3$ mean?

a) 21 is 3 times as many as 7
b) 21 is 7 times as many as 3
c) Both A and B
d) 21 is 1 more than 20

7. If there are 4 boxes and each box has 5 pencils, which equation shows a comparison?

a) $4 + 5 = 9$
b) $20 = 4 \times 5$
c) $4 - 5 = -1$
d) $5 = 4 \times 1$

8. If $36 = 9 \times 4$, then 9 times as many as 4 is:

a) 13
b) 36
c) 45
d) 9

9. Which sentence matches the equation $12 = 2 \times 6$?

a) 12 is 6 times as many as 3.
b) 12 is 2 times as many as 6.
c) 6 is 2 times as many as 12.
d) 2 is 6 times as many as 12.

1. Sarah earned $16 mowing lawns. Her brother earned 2 times as much. How much did her brother earn?

2. Lily has 9 markers. Her friend has 6 times as many. How many markers does her friend have?

3. If 36 is 6 times as many as a number, what is the number?

4. Jason has 20 marbles. His friend has 4 times as many marbles. How many marbles does his friend have?

5. A ribbon is 48 centimeters long. That is 6 times as long as another piece. How long is the shorter piece?

6. Emma picked 15 apples. Her sister picked one-third as many apples. How many apples did her sister pick?

7. A puzzle costs 56 tickets. That's 7 times as many tickets as a whistle. How many tickets does a whistle cost?

1. What comes next in the pattern 6, 12, 18, 24, ___?

a) 25
b) 30
c) 36
d) 32

2. What is the rule for 5, 15, 25, 35, ___?

a) Add 5
b) Add 8
c) Add 10
d) Add 15

3. Which pattern shows "subtract 6" each time?

a) 36, 30, 24, 18
b) 10, 16, 22, 28
c) 12, 17, 22, 27
d) 8, 12, 16, 20

4. If you start at 2 and add 5 each time, what is the third number?

a) 12
b) 7
c) 17
d) 15

5. Which of these is NOT a repeating pattern?

a) red, blue, red, blue
b) 2, 4, 6, 8
c) circle, triangle, square, circle, triangle, square
d) up, down, up, down

6. What strategies do you use to find the rule in a pattern?

Fill in the missing digits

1.

$$\begin{array}{r} 78_2 \\ +\ 4\ \ 50 \\ \hline 1283_ \end{array}$$

2.

$$\begin{array}{r} 9_8_ \\ -\ 50\ \ 0 \\ \hline 4194 \end{array}$$

3.

$$\begin{array}{r} 95_9 \\ -\ 2701 \\ \hline 6_9_ \end{array}$$

4.

$$\begin{array}{r} 58_7 \\ -\ 1238 \\ \hline 4_3_ \end{array}$$

5.

$$\begin{array}{r} 75_7 \\ +\ \ 451 \\ \hline 11_7_ \end{array}$$

6.

$$\begin{array}{r} 5_75 \\ -\ 450 \\ \hline 905 \end{array}$$

Use the associative property to fill the missing values

7. $(3 \times __) \times 8 = 3 \times (5 \times __)$

8. $(__ \times 2) \times 7 = 4 \times (2 \times __)$

9. $9 \times (5 \times __) = (9 \times __) \times 3$

10. $(6 \times __) \times 4 = 6 \times (7 \times __)$

11. $(__ \times 3) \times 6 = 8 \times (3 \times __)$

12. $2 \times (__ \times 5) = (2 \times 9) \times __$

Free Sample - Answer Key

Questions restart at 1 on each exercise page.

Sample 1: Comparisons (4.OA.A.1)

1. 4
2. 3
3. 4
4. 18 candies
5. 40
6. c (Both a and b)
7. b
8. b (36)
9. b

Sample 2: Word Problems (4.OA.A.2)

1. $32
2. 54 markers
3. 6
4. 80 marbles
5. 8 centimeters
6. 5 apples
7. 8 tickets

Sample 3: Patterns (4.OA.C.5)

1. b (30)
2. c (Add 10)
3. a
4. a (12)
5. b
6. Example: Find the change or repeating unit. Check that the rule works throughout the pattern.

Sample 4: Arithmetic (4.NBT.B.4-5)

1. 7,882 + 4,950 = 12,832
2. 9,284 - 5,090 = 4,194
3. 9,599 - 2,701 = 6,898
4. 5,877 - 1,238 = 4,639
5. 7,527 + 4,451 = 11,978
6. 5,475 - 4,570 = 905
7. 5; 3
8. 4; 7
9. 3; 5
10. 7; 6
11. 8; 3
12. 9; 2

For questions 7-12, blanks are listed from left to right.

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