

Writing and Solving Equations

Name: _____

Date: _____

1. Which equation is equivalent to $x + 5 = 12$?

- A. $2x + 5 = 36$ B. $x = 12 - 5$
C. $x - 5 = 12$ D. $x = 12 \div 5$

2. Which equation is equivalent to $x + 25 = 9$?

- A. $x = 25 + 9$ B. $x = 25 - 9$
C. $x = 9 - 25$ D. $x = 25$

3. Which equation is equivalent to $x - 3 = 2$?

- A. $x = 3 - 2$ B. $x = 3 + 2$
C. $x - 5 = 2$ D. $2x - 6 = 5$

4. Which equation is equivalent to $t - 25 = 7$?

- A. $t = 7(25)$ B. $t = 7 + 25$
C. $t = 150$ D. $t = \frac{7}{25}$

5. Which equation is equivalent to $\frac{9}{10}t = 50$.

- A. $t = 5$ B. $9t = 50 \cdot 10$
C. $9t = \frac{50}{10}$ D. $t = \frac{9}{50}$

6. Which equation is equivalent to $\frac{1}{10}x = 5$?

- A. $x = 5(10)$ B. $x = 5\left(\frac{1}{10}\right)$
C. $x = -5$ D. $x = -\frac{1}{5}$

7. Which equation is equivalent to $\frac{m}{0.3} = 1.2$?

- A. $m = \frac{1.2}{0.3}$ B. $m = 1.2 \cdot 0.3$
C. $m = 1.2 \cdot \frac{1}{2}$ D. $m = 1.2 \cdot 3$

8. Which equation is equivalent to $\frac{y}{a} = b$?

- A. $y = a \cdot b$ B. $y = b \div a$
C. $y = a \div b$ D. $y = \frac{1}{2}a$

9. Which equation is equivalent to $\frac{x}{2a} = 3b$?

A. $x = \frac{3b}{2a}$

B. $x = 6ab$

C. $x = 5ab$

D. $x = 5a + b$

10. Which operation must be used to solve this equation?

$$x - 5 = 23$$

A. Addition

B. Subtraction

C. Multiplication

D. Division

11. Which operation could be used to solve this equation?

$$x - 7 = 38$$

A. Addition

B. Subtraction

C. Multiplication

D. Division

12. Jessica bought 4 bags of potato chips for a party. When she found out that more people were coming than expected, she went back to the store and bought two more bags of chips. Which number sentence could you use to find out how many bags of chips she bought?

A. $4 + 2 = n$

B. $4 - 2 = n$

C. $4 \div 2 = n$

D. $4 \div 2 = n$

13. A local radio station is giving away t-shirts to listeners. On Friday, the radio station gave away 24 shirts and had 212 left over. What equation tells how many shirts (t) the radio station had to begin with?

A. $d - 24 = 212$

B. $d + 24 = 212$

C. $\frac{d}{24} = 212$

D. $24d = 212$

14. Local volunteers want to fill 522 care packages to send to soldiers overseas. There are 190 packages left to fill. What equation tells how many packages (p) the volunteers have filled already?

A. $p - 190 = 522$

B. $\frac{p}{190} = 522$

C. $190p = 522$

D. $p = 522 - 190$

15. Kisha bought 4 packages of rolls. Each package contained 8 rolls. Which number sentence could you use to find out how many rolls Kisha bought?

A. $4 + 8 = n$ B. $8 \div 4 = n$
C. $4 \times 8 = n$ D. $8 \div 4 \times 4 = n$

16. Ann can read 20 pages per hour in her library book. She read 110 pages last night. Which equation can she use to find the number of hours she spent reading last night?

A. $110 - 20 = h$ B. $110 - h = 20$
C. $h \times 20 = 110$ D. $110 \times 20 = h$

17. The length of North Carolina measured at its longest point going from east to west is 503 miles. Its greatest width, measured at its widest point going from north to south, is 315 miles less than its greatest length. Which equation can be used to find the greatest width?

A. $w - 503 = 315$ B. $503w = 315$
C. $315w = 503$ D. $503 - w = 315$

18. Which equation can be used to solve the problem?

Mr. Wong has 72 math tests to grade from his 1st and 2nd period classes. If there are 36 students in his 1st period class, how many are in his 2nd period class?

A. $x \cdot 36 = 72$ B. $\frac{72}{36} = x$
C. $36 + x = 72$ D. $36 - x = 72$

19. In the Tasty Foods warehouse there are 960 bottles of mustard to deliver to 4 stores over a 5 day period. Each store will receive an equal number of bottles of mustard. Last week, each store sold 175 bottles of mustard.

Which equation could be used to find the number of bottles of mustard, M , that need to be delivered each day to each store so that all 960 bottles are delivered to all 4 stores within 5 days?

A. $960 \div 4 = M$ B. $175 \div 4 = M$
C. $960 \div 5 = M$ D. $960 \div 20 = M$

20. Jorge drinks 3 cups of milk per day. Which number sentence could be used to determine how many days a gallon of milk would last?

A. $d = 128 \div 3$ B. $d = 16 \div 3$
C. $d = 8 \div 3$ D. $d = 4 \div 3$

21. Marlee's grandmother gave each child who came to her house on Halloween night 3 pieces of candy and 1 miniature car. If 276 treats were given out, which number sentence could be used to find N , the number of children who came by the house of Halloween?

A. $N = 276 \times (3 + 1)$ B. $N = 276 \div (3 + 1)$
C. $N = 276 \div (3 \times 1)$ D. $N = 276 - (3 \times 1)$

22. Solve: $s + 3 = 18$

A. -21 B. -15 C. 15 D. 21

23. Solve: $d + 7 = 11$

A. -18 B. -4 C. 4 D. 22

24. What is x ?

$$14 + x = 20$$

A. 4 B. 6 C. 8 D. 16

25. What is n ?

$$15 = n + 8$$

A. 23 B. 17 C. 7 D. 3

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1.
Answer: B
Objective: 6.EE.7

2.
Answer: C
Objective: 6.EE.7

3.
Answer: B
Objective: 6.EE.7

4.
Answer: B
Objective: 6.EE.7

5.
Answer: B
Objective: 6.EE.7

6.
Answer: A
Objective: 6.EE.7

7.
Answer: B
Objective: 6.EE.7

8.
Answer: A
Objective: 6.EE.7

9.
Answer: B
Objective: 6.EE.7

10.
Answer: A
Objective: 6.EE.7

11.
Answer: A
Objective: 6.EE.7

12.
Answer: A
Objective: 6.EE.7

13.
Answer: A
Objective: 6.EE.7

14.
Answer: D
Objective: 6.EE.7

15.
Answer: C
Objective: 6.EE.7

16.
Answer: C
Objective: 6.EE.7

17.
Answer: D
Objective: 6.EE.7

18.
Answer: C
Objective: 6.EE.7

19.
Answer: D
Objective: 6.EE.7

20.
Answer: B
Objective: 6.EE.7

21.
Answer: B
Objective: 6.EE.7

22.
Answer: C
Objective: 6.EE.7

23.
Answer: C
Objective: 6.EE.7

24.
Answer: B
Objective: 6.EE.7

25.
Answer: C
Objective: 6.EE.7