



Grade 7

Topic: Solving Equations Using Addition or Subtraction

Instructions

Solve the following equations using addition or subtraction. Show all steps clearly.

Practice Problems

1. Solve for x .

(i) $x + 5 = 12$

(ii) $x - 7 = 10$

(iii) $x + 9 = 4$

(iv) $x - 3 = -6$

(v) $x + 15 = 20$

(vi) $x - 8 = 0$

2. Solve for the variable.

(i) $m + 4 = 9$

(ii) $p - 2 = 5$

(iii) $y + 6 = 0$

(iv) $t - 3 = -1$

3. Word Problems.

- (i) Sarah has some apples. She buys 7 more and now has 15. How many did she have at first?
- (ii) A number minus 5 equals 11. Find the number.
- (iii) A box weighs 12 kg. After removing some items, it weighs 7 kg. How much weight was removed?
- (iv) Tom scored x points in a game. After scoring 8 more points, he has 20 points. Find x .

Multiple-Choice Questions

1. Solve: $x + 6 = 10$
 - A. 4
 - B. 16
 - C. 10
 - D. 6
2. Solve: $x - 9 = 3$
 - A. 12
 - B. 6
 - C. 3
 - D. 9
3. Which equation has solution $x = 5$?
 - A. $x + 2 = 7$
 - B. $x - 3 = 1$
 - C. $x + 5 = 9$
 - D. $x - 5 = 10$
4. Solve: $m + 0 = 0$
 - A. 0
 - B. 1
 - C. m
 - D. no solution

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