

Grade 7

Topic: Solving Equations Using Multiplication or Division

Instructions

Solve the following equations using multiplication or division. Show all steps clearly.

Practice Problems

1. Solve for x.

(i) $3x = 12$	(iv) $\frac{x}{6} = 2$
(ii) $\frac{x}{4} = 5$	(v) $-5x = 20$
(iii) $7x = 21$	(vi) $\frac{x}{-3} = -6$

2. Solve for the variable.

- (i) 2m = 14 (iii) -4y = -16
- (ii) $\frac{p}{5} = 3$ (iv) $\frac{t}{7} = 1$

3. Word Problems.

- (i) Three times a number is 18. Find the number.
- (ii) A number divided by 6 equals 4. Find the number.
- (iii) The product of a number and 9 is 27. Find the number.
- (iv) Half of a number is 10. Find the number.

Multiple-Choice Questions

1. Solve: 5x = 25

- A. 5
- B. 10
- C. 20
- D. 125
- 2. Solve: $\frac{x}{2} = 8$
 - A. 4
 - B. 16
 - C. 10
 - D. 8

3. Which equation has solution x = -3?

- A. 3x = -9B. x/3 = 9C. 2x = 6D. x/2 = -1
- 4. Solve: -7x = 21
 - A. -3
 B. 3
 C. 0
 D. -21

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