

1-8

Standardized Test Prep

An Introduction to Equations

Multiple Choice

For Exercises 1–5, choose the correct letter.

1. Which equation is true?
A. $25 - (-18) = 7$
B. $\frac{1}{3}(-9) - 6 = -9$
C. $25(-2) + 7 = -39 + 4$
D. $-19 + 8(-2) = -7(-5)$
2. Which equation has a solution of -6 ?
F. $15x - 20 = 70$ G. $14 = 6x - 22$ H. $3x - 8 = -10$ I. $\frac{1}{2}x - 8 = -11$
3. Which equation has a solution of $\frac{1}{2}$?
A. $13x - 12 = 14$ B. $9x + 15 = 20$ C. $-6x - 18 = -21$ D. $-11x = 12x + 12$
4. The money a company received from sales of their product is represented by the equation $y = 45x - 120$, where y is the money in dollars and x is the number of products sold. How many products does the company need to sell in order to receive \$3705?
F. 42 G. 85 H. 105 I. 166,605
5. Mrs. Decker walks for 30 minutes each day as often as possible. What is an equation that relates the number of days d that Mrs. Decker walks and the number of minutes m that she spends walking?
A. $m = 30d$ B. $d = 30m$ C. $d = m + 30$ D. $m = d + 30$

Short Response

6. There are 450 people travelling to watch a playoff football game. Each bus can seat up to 55 people. Write an equation that represents the number of buses it will take to transport the fans. Use a table to find a solution.