

# 1-8 Standardized Test Prep

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## An Introduction to Equations

### Multiple Choice

For Exercises 1–5, choose the correct letter.

- Which equation is true?  
A.  $25 - (-18) = 7$   
B.  $\frac{1}{3}(-9) - 6 = -9$   
C.  $25(-2) + 7 = -39 + 4$   
D.  $-19 + 8(-2) = -7(-5)$
- Which equation has a solution of  $-6$ ?  
F.  $15x - 20 = 70$     G.  $14 = 6x - 22$     H.  $3x - 8 = -10$     I.  $\frac{1}{2}x - 8 = -11$
- Which equation has a solution of  $\frac{1}{2}$ ?  
A.  $13x - 12 = 14$     B.  $9x + 15 = 20$     C.  $-6x - 18 = -21$     D.  $-11x = 12x + 12$
- 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
- 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

- 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.