10. \( 11 = \frac{r}{4} \)
   \( A = 66 \)

14. \( 11 = 5y - 4 \)
   \( y = 3 \)

12. \( W = \text{width (ft)} \)
   Area = 211,200 ft\(^2\)
   \( W = \frac{660}{288} \)
   \( W = 320 \text{ ft} \)

16. \( \frac{3u}{3} + 2 = 20 \)
   \( u = 6 \)

18. \( -110 = -4c - 6c \)
   \( c = 11 \)

20. \( z + 5 - 4z = 8 \)
   \( z = -1 \)

22. \( 4y - 2(y - 4) = -20 \)
   \( 4y - y + 4 = -20 \)
   \( 3y = -24 \)
   \( y = -8 \)

24. \( 16H - 4(5H - 7) = 4 \)
   \( 16H - 20H + 28 = 4 \)
   \( -4H = -24 \)
   \( H = 6 \)

26. \( \frac{3x}{2} - 1 = -12 \cdot \frac{3}{4} \)
   \( 3x - 2 = -9 \)
   \( 3x = -7 \)
   \( x = -4 \)

29. **K.E.:**
   But 5 tickets
   $2.50 fee per ticket
   Deliver fee $15
   Total cost $352.50

   **Variable:** \( x = \text{price ($\text{s}$)} \) per ticket

   **Equation:**
   \( 5(x + 2.5) + 15 = 352.50 \)

   **Answer in words:**
   Each ticket costs $65

29. \( -3z - 1 = 8 - 3z \)
   \( \frac{3z}{3} + \frac{5z}{5} \)
   \( -1 \neq 8 \)
   \( X = \text{No Solution} \)

30. \( M = 1 \)

33. \( 4(x - 3) = -2(6 - 2x) \)
   \( 4x - 12 = -12 + 4x \)
   \( -4x \)
   \( -12 = -12 \)

   \( X = \text{All Real Numbers} \)
Solve the proportion. Check your solution.

36. \( \frac{56}{16} = \frac{x}{2} \)

\[ \frac{30}{30} = \frac{30}{30} \]

\( x = \text{ALL REAL #5} \)

38. \( \frac{56}{16} = \frac{x}{2} \)

\[ \frac{56}{16} = \frac{x}{2} \]

\[ x = 7 \]

51. \( \frac{65}{w} = \frac{z}{20} \)

\[ w = 65 \times 20 \]

Type 650 words

52. \( \frac{12}{5} \text{cm} = \frac{6.8}{D} \text{cm} \)

D \( \approx 81.6 \text{ km} \)

About 81.6 km between cities

54. Proportion: \( \frac{117}{N} = \frac{78}{100} \)

Equation: \( 117 = 0.78N \)

\( N = 150 \)

56. Proportion: \( \frac{P}{100} = \frac{18}{60} \)

Equation: \( P \times 60 = 18 \)

\( P = 300 \)

60. \( 4y - x = 20 - y \)

\[ y = \frac{1}{5}x + 4 \]

58. \( x + 7y = 0 \)

\[ y = -\frac{1}{7}x \]

or \( y = -\frac{x}{7} \)

61A. \( \frac{V}{V} = \frac{5850}{13} \)

\( V = 5850 \text{ in}^3 \)

\( h = \frac{5850}{(30)(13)} = 15 \)

Height is 15 in