Name _____

Airplane Cargo Mission (Real-World Applications) Answer Key

1.
$$x + 4,200 = 18,000 \rightarrow x = 13,800 L$$

2.
$$3x = 21,000 \rightarrow x = 7,000 \text{ kg}$$

3.
$$x + 8,750 = 14,000 \rightarrow x = 5,250 \text{ kg}$$

4.
$$4,500 + 1,200 = 5,700 L$$

5.
$$3x = 3,900 \rightarrow x = 1,300 \text{ km per leg}$$

6.
$$2.5 \times 1.8 \times x = 9 \rightarrow 4.5x = 9 \rightarrow x = 2 \text{ m high}$$

7.
$$2,400x = 12,000 \rightarrow x = 5 \text{ hours}$$

8.
$$5x = 3,750 \rightarrow x = 750 \text{ kg per box}$$

9.
$$22,000 - 18,500 = 3,500 L remain$$

$$10.4,800 + 3,200 + x = 10,500 \rightarrow x = 2,500 \text{ kg}$$

$$11.x + (x + 1,200) = 7,200 \rightarrow 2x + 1,200 = 7,200 \rightarrow 2x = 6,000 \rightarrow x = 3,000 \text{ km}$$

(Plane D), 4,200 km (Plane C)

$$12.(8x) + 3,500 = 31,500 \rightarrow 8x = 28,000 \rightarrow x = 3,500 \text{ kg per plane}$$

