

# Chapter 11 Problems of the Week Answers

1. 36 2. 18

3. a)  $d = st$ ,  $50 \times 3.5 = 175$  km

b)  $s = \frac{d}{t}$ ,  $\frac{700}{3.5} = 200$  km/h

c)  $t = \frac{d}{s}$ ,  $\frac{600}{120} = 5$  h

4. Equations may vary. Example:  $t = 6s + 2$   
or  $t = 8s - 2(s - 1)$

5. 20 months

6. a) 212 °F b) 26.67 °C

7. 136 cm<sup>2</sup>

8. a) Answers may vary. Example:

$$d = 300\,000 \times t$$

b) 4 860 000 000 km