Chapter 11 Gifted and Enrichment Answers

1. a) $p + 15b = 42b$

$\qquad p = 42b - 15b$

$\qquad p = 27b$

b)
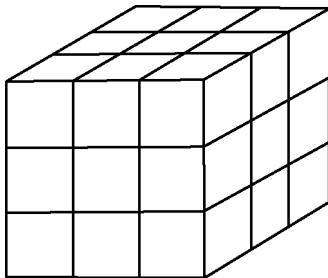
2. a) $\text{Days} = \dfrac{\left(\dfrac{\text{Distance}}{\text{Speed}}\right)}{24}$

b) $\text{Days to Mars} = \dfrac{\left(\dfrac{100\,000\,000}{28\,000}\right)}{24}$

$\qquad\qquad\qquad \approx \dfrac{3571.4}{24}$

$\qquad\qquad\qquad \approx 148.8$

It would take the space shuttle about 148.8 days to travel from Earth to Mars.

3. a) Equations may vary. Example: $M = 72(a - 160)$, where M is the money saved, in dollars, and a is Renu's age, in months.

b) On her 16th birthday, Renu will be $16 \times 12 = 192$ months old. Equations may vary. Example:

$M = 72(192 - 160)$

$M = 72 \times 32$

$M = 2304$

Renu will have saved $3168.

4. a) $f = 0.044 \times s$, where s is the amount of soup, in millilitres, and f is the amount of fat, in grams.

b) $f = 0.044 \times 250$

$\quad f = 11$

There are 11 g of fat in 250 mL of the soup.