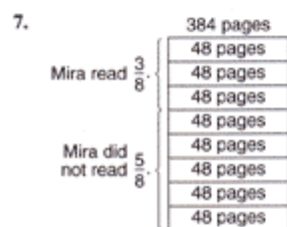## SOLUTIONS

3. 5 minutes $= 5(60 \text{ seconds}) = 300 \text{ seconds}$

$$\begin{array}{r} 300 \text{ seconds} \\ +\ 52 \text{ seconds} \\ \hline 352 \text{ seconds} \end{array}$$

4.
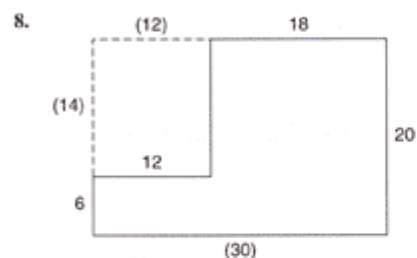$$\begin{array}{r} 900 \text{ cans} \\ -\ 400 \text{ cans} \\ \hline 500 \text{ cans} \end{array}$$

5.
$$60 \quad 7\overline{)525}^{\,75}$$
$$\begin{array}{r} 70 \\ 75 \\ 70 \\ 80 \\ 85 \\ +\ 85 \\ \hline 525 \end{array}$$

6. See student work.

7.

384 pages — 48 pages (×8 rows); Mira read $\frac{3}{8}$, Mira did not read $\frac{5}{8}$

(a) $3 \times 48 \text{ pages} = \textbf{144 pages}$

(b) $\frac{3}{8} + \frac{1}{8} = \frac{4}{8} = \frac{1}{2}$ **48 pages**

8.

(a) Area of large rectangle $= 30 \text{ in.} \times 20 \text{ in.}$
$= 600 \text{ in.}^2$
Area of small rectangle $= 12 \text{ in.} \times 14 \text{ in.}$
$= 168 \text{ in.}^2$
Area of figure $= 600 \text{ in.}^2 - 168 \text{ in.}^2$
$= \textbf{432 in.}^2$

(b) Perimeter $= 18 \text{ in.} + 20 \text{ in.} + 30 \text{ in.}$
$+\ 6 \text{ in.} + 12 \text{ in.} + 14 \text{ in.}$
$= \textbf{100 in.}$

9. (a) $\frac{7}{9} \cdot \frac{2}{2} = \frac{14}{18}$

(b) $\frac{20}{36} \div \frac{4}{4} = \frac{5}{9}$

(c) $\frac{4}{5} \cdot \frac{6}{6} = \frac{24}{30}$

10. (a) $2\textcircled{9}86.34157 \longrightarrow$
$\overline{3000.00000} \longrightarrow \textbf{3000}$

(b) $2986.341\textcircled{5}7 \longrightarrow \textbf{2986.342}$

11. Probability of stopping on

$1 = \frac{3}{8}$

$2 = \frac{2}{8} = \frac{1}{4}$

$3 = \frac{2}{8} = \frac{1}{4}$

$4 = \frac{1}{8}$

(a) **1**

(b) **4**

12. (a) **1.2 cm**

(b) **12 mm**

13. Perimeter $= 1.2 \text{ cm} + 1 \text{ cm} + 1.2 \text{ cm}$
$+\ 1 \text{ cm} = \textbf{4.4 cm}$

14. The number 3.4 is about halfway between 3 and 4. Point B is too close to 3 to represent 3.4. So the best choice is point C.

15. (a) $\overline{AC}$ (or $\overline{CA}$)

(b) $\overline{BC}$ (or $\overline{CB}$)

16. (a) Area $= \dfrac{6 \text{ cm} \cdot 6 \text{ cm}}{2} = \textbf{18 cm}^2$

(b) Area $= \dfrac{6 \text{ cm} \cdot 6 \text{ cm}}{2} = \textbf{18 cm}^2$

(c) Area $= 18 \text{ cm}^2 + 18 \text{ cm}^2 = \textbf{36 cm}^2$

17.
$$\begin{array}{r} 6.7 \\ -\ 4.3 \\ \hline 2.4 \end{array}$$
$a = \textbf{2.4}$

18.
$$\begin{array}{r} \overset{1}{4}.7 \\ +\ 3.6 \\ \hline 8.3 \end{array}$$
$m = \textbf{8.3}$

94