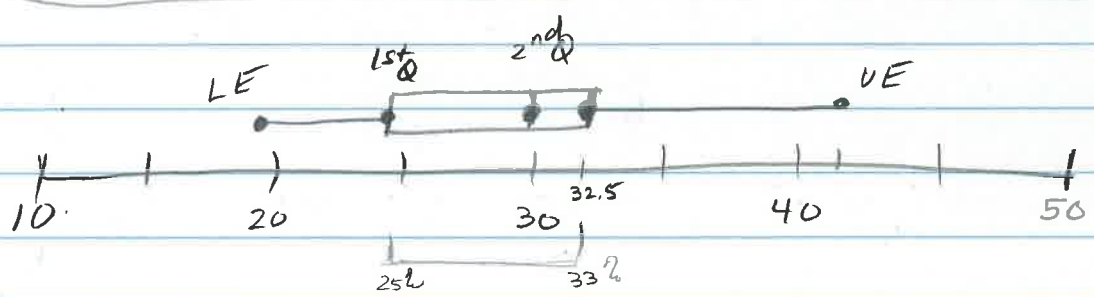
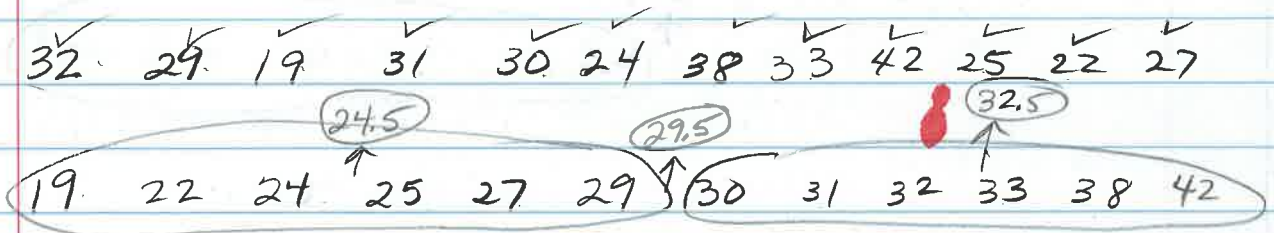


8.22

Hwk

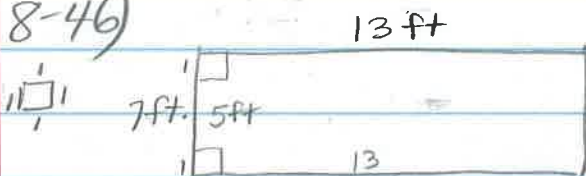
8-45)

32% of families stopped @ table and bought cookies



The true % of grocery store shoppers that buy GS cookies is probably between 25% & 33%.

8-46)

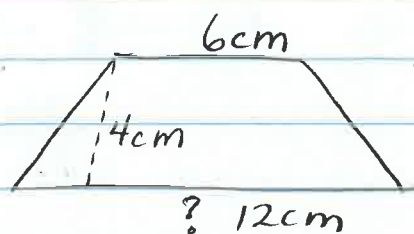


a) Area = bh
 $= 13 \cdot 7$
 $= 91 \text{ sq. ft.}$

No, she needs 91 tiles!
 86 is not enough

b) Yes. She needs $13 + 13 + 5 + 5 = 36$ tiles.
Corners OVERLAP!
 She will have 50 tiles left over!
 $86 - 36 = 50$

8-47)



$$\text{Area} = 36 \text{ cm}^2$$

$$\begin{aligned} A &= \frac{1}{2}h(b_1 + b_2) \\ 36 &= \frac{1}{2} \cdot 4(b_1 + 6) \\ 36 &= 2(b_1 + 6) \\ 36 &= 2b_1 + 12 \\ -12 & \quad -12 \\ \hline 24 &= 2b_1 \\ \frac{24}{2} &= \frac{2b_1}{2} \\ 12 &= b_1 \end{aligned}$$

8-48)

a) $\frac{5}{12} + (-\frac{7}{8}) - (-\frac{1}{6})$

$$\frac{10}{24} + \frac{-21}{24} + \frac{+4}{24}$$

$$\frac{-11}{24} + \frac{4}{24}$$

$$-\frac{7}{24}$$

b) $-\frac{11}{15} - \frac{4}{5} - (-\frac{57}{60})$

$$\frac{-44}{60} - \frac{48}{60} - (-\frac{57}{60})$$

$$\frac{-44}{60} - \frac{48}{60} + \frac{57}{60}$$

$$\frac{-92}{60} + \frac{57}{60}$$

$$-\frac{35}{60} = -\frac{7}{12}$$

c) $4\frac{1}{12} + (-1\frac{5}{6})$

$$\frac{49}{12} + \frac{-11}{6}$$

$$\frac{49}{12} + \frac{-22}{12}$$

$$\frac{27}{12} = 2\frac{1}{4}$$

d) $-\frac{7}{11} \cdot \frac{8}{9} = -\frac{56}{99}$

$$e) \frac{1}{3} \cdot \frac{1}{2} + \frac{5}{6}$$

$$\frac{1}{6} + \frac{5}{6}$$

$$\frac{1}{6} + \frac{5}{6}$$

$$\frac{6}{6} = 1$$

$$f) -\frac{4}{6} \cdot \left(-\frac{9}{2}\right)$$

$$\frac{36}{12} = 3$$

8-49)

$$a) 2(x + 4.5) = 32$$

$$2x + 9 = 32$$

$$\begin{array}{r} -9 \quad -9 \\ \hline 2x = 23 \\ 2 \quad 2 \\ \hline x = 11.5 \end{array}$$

$$2x = 23$$

$$2 \quad 2$$

$$x = 11.5$$

$$b) 6 + 2.5x = 21$$

$$\begin{array}{r} -6 \quad -6 \\ \hline 2.5x = 15 \\ 2.5 \quad 2.5 \\ \hline x = 6 \end{array}$$

$$2.5x = 15$$

$$2.5 \quad 2.5$$

$$x = 6$$

$$c) \frac{x}{9} = \frac{5}{16}$$

$$16x = 45$$

$$16 \quad 16$$

$$x = \frac{45}{16} = 2\frac{13}{16}$$

8-50) \$60 Bill

18% tip

$$20\% = \$12.00$$

$$-2\% = -1.20$$

$$\frac{18\% = \$10.80 \text{ tip}}$$

$$60 \times 10\% = \$6$$

$$20\% = \$12$$

$$1\% = 0.60$$

$$2\% = 1.20$$

$$\text{Also } \sim 60 \cdot (0.18) = \$10.80 \text{ tip}$$