32.)　　$0.50 for every $\frac{1}{4}$ miles

$\geq$ at least $500.00

m = # of miles

$\dfrac{\$2.00}{1\ mile}$

$\dfrac{\$2.00\ m}{2.00} \geq \dfrac{\$500.00}{2.00}$

$m \geq \boxed{250\ miles}$

40.)

$$\frac{3}{5} \text{ of } 275 = 165$$

west branch $>$ 165 people

30.) $s = \#$ of study sessions

$$\frac{3}{5}s \geq 15$$

$$\boxed{s \geq 25}$$

14.) $-11 \cdot -11 > \cancel{x} \dfrac{c}{11} \cdot -11$

$\div \dfrac{D/u}{-11} \cdot -11$

$121 < c$

$\boxed{c > 121}$

16.)

$$-2 \cdot -10 \leq \cancel{-1} \frac{x}{\cancel{2}} \cdot \cancel{-2}$$

$$\div \frac{D}{-2} \Big| \frac{u}{\cdot -2}$$

$$20 \geq x$$

$$\boxed{x \leq 20}$$

28

$$-\frac{\cancel{2}}{\cancel{2}}d < \frac{5}{-2}$$

$$d > -\frac{5}{2}$$

5-3 Solving Multistep Inequalities

$$4(3t-5)+7 \geq 8t+3$$

$$12t-20+7 \geq 8t+3$$

$$12t-13 \geq 8t+3$$
$$-8t \qquad\quad -8t$$

$$4t-13 \geq 3$$
$$\quad +13 \quad +13$$

$$\frac{4t}{4} \geq \frac{16}{4}$$

$$\boxed{t \geq 4}$$

- $\emptyset$ empty set

$$25 \nleq -12$$

- all real number

$$18 = 18$$

$$\{n \mid n = \text{all real numbers}\}$$

<u>5-3</u>

12 – 52 even

74 – 76 even

26.)

$$\frac{-33}{-3} \geq \frac{-3}{-3}z$$

$$11 \leq z$$

$$z \geq 11$$