

# 100

$$|7x + 4| = 0$$

$$7x + 4 = 0$$

$$\quad -4 \quad -4$$

$$\frac{7x}{7} = \frac{-4}{7}$$

$$x = -\frac{4}{7}$$

# 75

$$\left| \frac{1}{2}x + \frac{1}{3} \right| + \frac{1}{4} = \frac{3}{4}$$

$$\quad \quad \quad -\frac{1}{4} \quad -\frac{1}{4}$$

$$\left| \frac{1}{2}x + \frac{1}{3} \right| = \frac{1}{2}$$

$$\frac{1}{2}x + \frac{1}{3} = \frac{1}{2}$$

$$\quad -\frac{1}{3} \quad -\frac{1}{3}$$

$$2 \cdot \frac{1}{2}x = \frac{1}{6} \cdot 2$$

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

$$\frac{1}{2}x + \frac{1}{3} = -\frac{1}{2}$$

$$\quad -\frac{1}{3} \quad -\frac{1}{3}$$

$$2 \cdot \frac{1}{2}x = \frac{-5}{3} \cdot 2$$

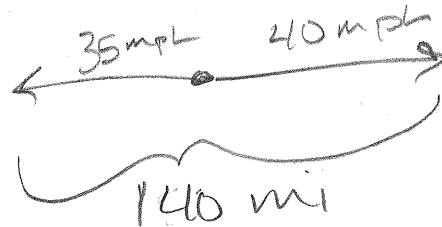
$$x = -\frac{5}{3}$$

$$x = \frac{1}{3}, -\frac{5}{3}$$

2.4 # 24

Lois: leaves at 8:00, 35 mph

Clark: leaves at 8:15, 40 mph



	Rate	time	distance
Lois	35	$X$	$35X$
Clark	40	$X - \frac{1}{4}$	$40(X - \frac{1}{4})$

total 140

$$35X + 40(X - \frac{1}{4}) = 140$$

$$35X + 40X - 10 = 140$$

$$75X - 10 = 140$$

$$+ 10 \quad + 10$$

$$\frac{75X}{75} = \frac{150}{75}$$

$$X = 2$$

→ 8:00 + 2 hrs

10:00 AM

2.4

# 15

Adults : \$18  
Senior/children: \$12

total sold 1460

total value \$22,752

	Price	* how many	= total value
Adults	18	X	18X
Senior/children	12	<u>1460 - X</u>	<u>12(1460 - X)</u>
		1460	22,752

$$18x + 12(1460 - x) = 22,752$$

$$x = 872,$$



2.5

#35

$$-\frac{1}{4}(p+6) + \frac{3}{2}(2p-5) < 10$$

4.  $-\frac{1}{4}p + -\frac{3}{2} + 3p - \frac{15}{2} < 10$

$$-p + -6 + 12p - 30 < 40$$

$$11p - 36 < 40$$
$$+36 \quad +36$$

$$\frac{11p}{11} < \frac{76}{11}$$

$p < \frac{76}{11}$
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