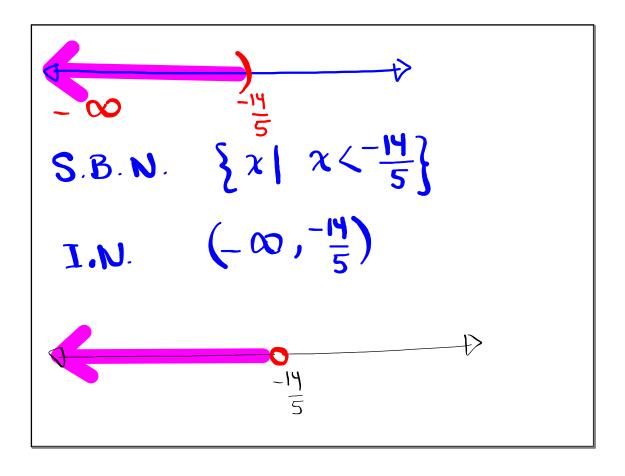


3 Solve:
$$\frac{2x-3}{3x+5}$$
 $\frac{2}{3}$ $\frac{3(2x-3)=2(3x+5)}{3x+5}$ $\frac{3x+5}{3}$ $\frac{6x-9=6x+10}{6x-6x=10+9}$ $\frac{1}{3}x-\frac{1}{2}>\frac{3}{4}x+\frac{2}{3}$ $0=19$ Solve: $\frac{1}{3}x-\frac{1}{2}>\frac{3}{4}x+\frac{2}{3}$ $0=19$ Solve: $\frac{1}{3}x-\frac{1}{2}>\frac{3}{4}x+\frac{2}{3}$ $0=19$ Solve: $\frac{1}{3}x-\frac{1}{2}>\frac{3}{4}x+\frac{2}{3}$ $0=19$ Solve: $\frac{1}{3}x-\frac{1}{2}>\frac{3}{4}x+\frac{1}{2}\cdot\frac{2}{3}$ $\frac{1}{4}x-\frac{6}{3}>\frac{3}{4}x+\frac{1}{2}\cdot\frac{2}{3}$ $\frac{1}{4}x-\frac{6}{3}>\frac{1}{4}x+\frac{1}{2}\cdot\frac{2}{3}$ $\frac{1}{4}x-\frac{1}{4}x-\frac{1}{4}x+\frac{1}{4}$

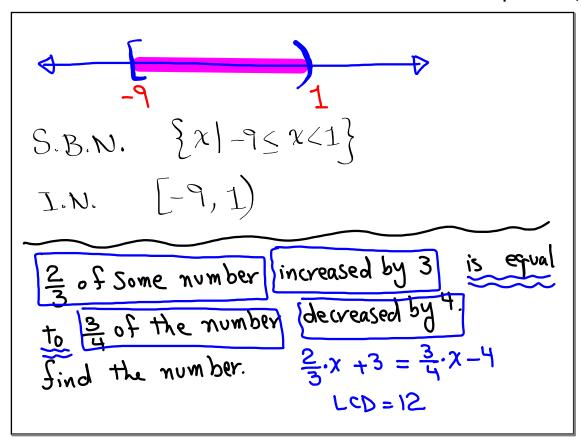


(5) Use proportion to Solve:

$$2.5/.$$
 of what number is 750 ?

 $\frac{P}{100} = \frac{Part}{whole}$ $\frac{2.5}{100} = \frac{750}{2.5} = \frac{30,000}{2.5} = \frac{30,000}{2.5} = \frac{30,000}{2.5}$

(6) Solve: $-8 < 2x + 4 \le 14$
 $-8 - 4 < 2x + 4 - 4 \le 14 - 4$
 $-6 < x \le 5$
 $-12 < 2x \le 10$
 $-12 < x \le 1$



$$42 \cdot \frac{2}{3}x + 12 \cdot 3 = 12 \cdot \frac{3}{4}x - 12 \cdot 4$$

$$8x + 36 = 9x - 48$$

$$8x - 9x = -48 - 36$$

$$-x = -84 x = 84$$

$$-\frac{1}{4}x = \frac{-84}{-1}x = \frac{-$$

(10) Solve:
$$3(2\chi - 5) - \chi + 5 = 2(2\chi + 1) - 12 + \chi$$

 $6\chi - 15 - \chi + 5 = 4\chi + 2 - 12 + \chi$
 $5\chi - 10 = 5\chi - 10$ \rightarrow $0 = 0$ True
 $5\chi - 5\chi = -10 + 10$ Identity

(11) Solve
$$-3(4x-1)+8x-4=4(2-x)+18$$

 $-12x+3+8x-4=8-4x+18$
 $-4x-1=-4x+26$
 $-4x+4x=26+1$
 $0=27$ False \rightarrow

(2) Evaluate
$$-2x^2 + 5x - 3$$
 for $x = -2$

$$= -2(-2)^2 + 5(-2) - 3$$

$$= -2 \cdot 4 + 5(-2) = -8 - 10 - 3 = [-21]$$
(3) Simplify $2(3x^2 - 5x + 4) - 6(x^2 - 3x + 2)$

$$= 6x^2 - 10x(+8) - 6x^2 + 18x(-12)$$

$$= 8x - 4$$

$$2(3x + 1) - 2 = 2(3x) + 2(1) - 2$$
 Dist.
= $(2.3)x + 2.1 - 2$ Assoc.

$$=6x + 2 - 2$$
 Identity

$$=6x+0$$
 Inverse

Evaluate
$$\frac{2+6}{2-3}$$
 For $x=0,-6$, and 3.

$$\begin{cases}
\frac{1}{3} - \frac{1}{3} = \frac{1}{3} \\
\frac{1}{3} - \frac{1}{3} = \frac{1}{3}
\end{cases}$$

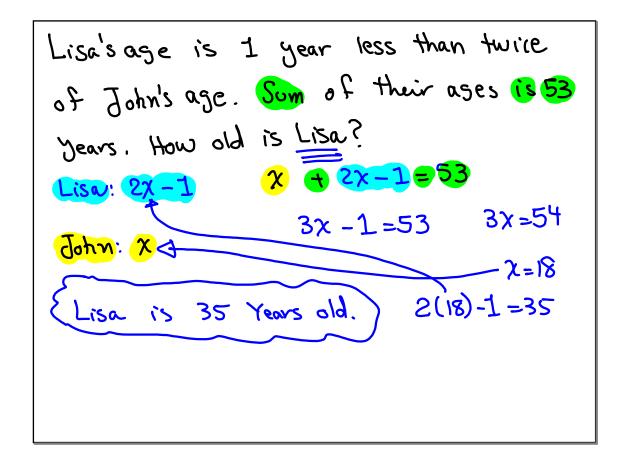
$$= \frac{1}{3} + \frac{1}{3} = \frac{1}{$$

Jose is I year older than Maria.

Som of their ages is 35.

How old is Jose? Jose + Maria = 35

Jose $\rightarrow x + 1$ x = 35Maria $\rightarrow x$ x = 34Jose is 18 years old.



An equation with more than one variable is called a formula.

$$A = LW$$
, $P = 2L + 2W$ Rectangle

Isolate L, we need to remove W.

Divide both Sides by W. A = LW L= H

Solve
$$P=2L+2W$$
 Sor W .

$$P-2L=2W$$
Divide by 2

$$\frac{P-2L}{2}=\frac{2W}{2}$$

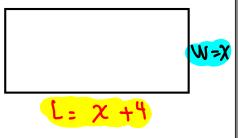
$$W=\frac{P-2L}{2}$$
Solve for $y: 2x^2+3y=6$ Slope-Int
$$3y=-2x+6$$

$$y=\frac{2}{3}x+\frac{6}{3}=y=\frac{2}{3}x+2$$

Solve
$$A = P + 2d$$
 Sor d.
 $A - P = 2d$
 A

The length of a rectangle is 4ft longer than its width.

- 1) Draw & label such rectongle
- 2) find its dimensions if the Perimeter is



$$2(x+4) + 2(x) = 48$$

$$2x + 8 + 2x = 48$$

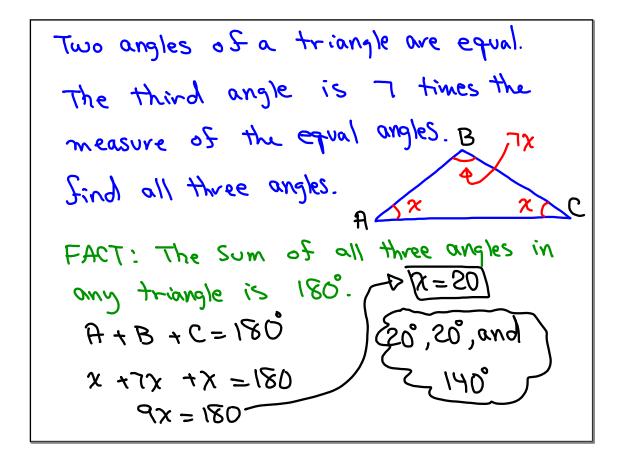
$$4x + 8 = 48$$

$$4x = 40$$

$$x = 10$$

$$x = 10$$

$$10 \text{ ft by 14 ft.}$$



In triangle ABC, angle B is 20° more than angle A.

angle C is 20° less than twice angle 2:+20

A.

Draw & label Such A A + B +C = 180° triangle.

find all three angles. x + x+20 +2x-20=180°

345°, 65°, and 70°)

4x = 180x=45

2x-20

$$J = x^{2} - x - 6$$

$$J = 0^{2} - 0 - 6$$

$$J = 0^{2} - 0 - 6$$

$$J = 0^{2} - 0 - 6$$

$$J = 0 - 6$$

Solve
$$1.25 \times -5(.5x - 2) = 10$$

$$1.25 \times -2.5 \times +10 = 10$$

$$-1.25 \times = 10 - 10$$

$$-1.25 \times = 0$$

$$\chi = \frac{0}{-1.25} \quad |x=0| \quad \{0\}$$

Solve
.1x +.05(2x+1) = 3.45
.1x +.05(2x) +.05(1) = 3.45
.1x +.1x +.05 = 3.45
.2x = 3.45 -.05
.2x = 3.4

$$x = \frac{3.4}{.2} \left[x = 17 \right] \Rightarrow \left[217 \right]$$

SG 4 Due Tomorrow.