M-A1 Algebra 1 2/2

$\frac{7}{22} = \frac{x}{5}$

$\frac{22x}{22} = \frac{35}{22}$

$\boxed{x = \frac{35}{22}}$

$\frac{16}{24} = \frac{x}{15}$

$\frac{24x}{24} = \frac{(16)(15)}{24}$

$x = \frac{(16)(15)}{24} = \frac{(2)(15)}{3} = (2)(5)$ (÷8, ÷3)

$\boxed{10}$

$\frac{7}{x-8} = \frac{4}{8}$

$4(x-8) = (7)(8)$

$4x - 32 = 56$

$+32 \quad +32$

$\frac{4x}{4} = \frac{88}{4}$ $\boxed{x = 22}$

1) $\frac{12}{20} = \frac{x}{50}$

$\frac{20x}{20} = \frac{600}{20}$

$\boxed{x = 30}$

2.) $\frac{5}{4} = \frac{n-4}{3}$

$4(n-4) = 15$

$\Rightarrow 4n - 16 = 15$

$+16 \quad +16$

$\frac{4n}{4} = \frac{31}{4}$

$\boxed{n = \frac{31}{4}}$

3.) $\frac{7}{x+6} = \frac{5}{x+8}$

$7(x+8) = 5(x+6)$

$\Rightarrow 7x + 56 = 5x + 30$

$-5x \quad -5x$

$2x + 56 = 30$

$-56 \quad -56$

$\Rightarrow \frac{2x}{2} = \frac{-26}{2}$

$\boxed{x = -13}$

Joe Burrow Cigar +450 no -775

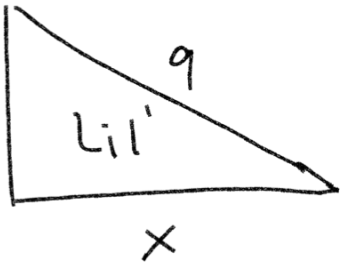
if win

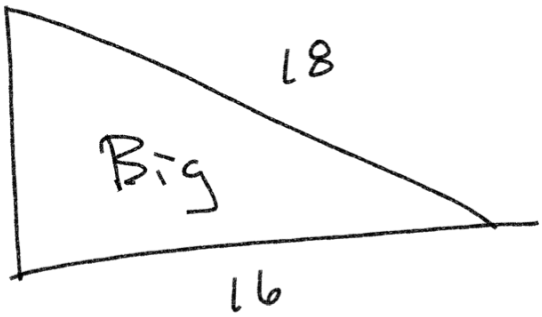
450 : 100

Chiefs 5 : 1

Jaguars 2000 : 1

Patriots 7 : 2





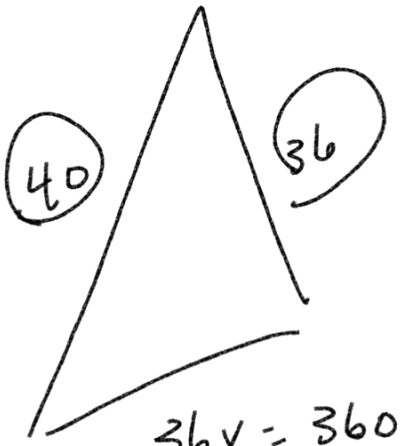
$$\frac{\text{Base Lil'}}{\text{slant Lil'}} = \frac{\text{Base Big}}{\text{slant Big}}$$

$$\frac{x}{9} \times \frac{16}{18}$$

$$\frac{18x}{18} = \frac{144}{18}$$

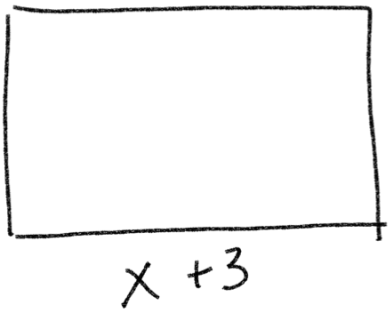
$x = 8$

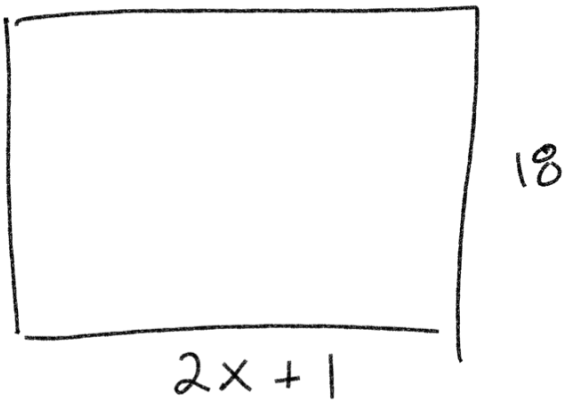
$$\frac{x}{9} \times \frac{40}{36}$$



$$\frac{36x}{36} = \frac{360}{36}$$

$x = 10$





$$\frac{x+3}{12} \times \frac{2x+1}{18}$$

$$18(x+3) = 12(2x+1)$$

$$18x + 54 = 24x + 12$$

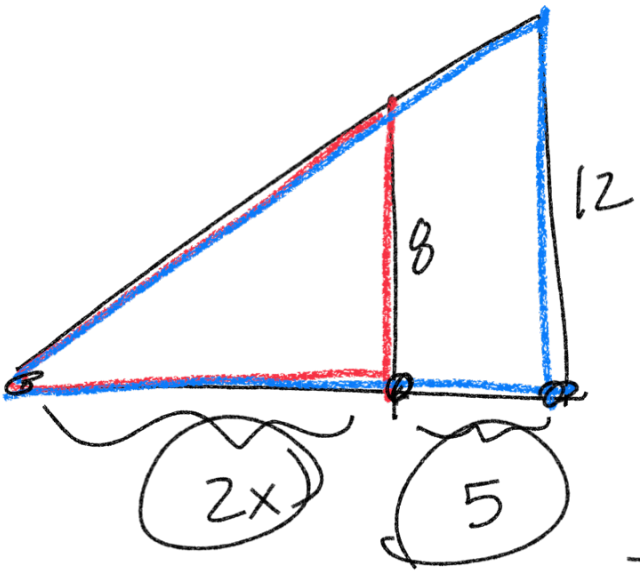
$$-18x \qquad -18x$$

$$54 = 6x + 12$$

$$-12 \qquad -12$$

$$\frac{42}{6} = \frac{6x}{6}$$

$$\boxed{x = 7}$$



$$\frac{8}{2x} \times \frac{12}{2x+5}$$

$$8(2x+5) = 12(2x)$$

$$16x + 40 = 24x$$

$$-16x \qquad -16x$$

$$\frac{40}{8} = \frac{8x}{8}$$

$$\boxed{x = 5}$$