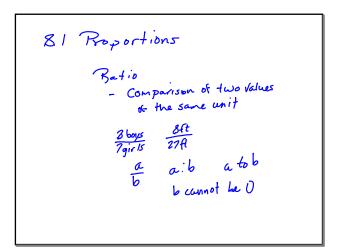
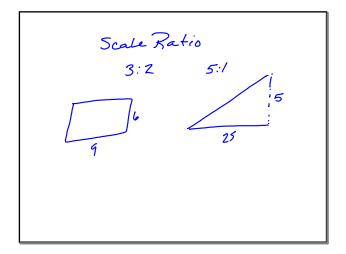
Similarity



Converting units

TH 36in:3 3ft = 84in
36in

$$\frac{300cm}{4m} = \frac{3m}{4m}$$



Proportions
Two ratios that have
the same value

$$\frac{a}{b} = \frac{c}{d}$$

means extremes a.d = b.c Cross Product Property

a C
b d

ad = bc

4 X X = 7 7 = 112 = 7 X = 16

7 X 28 = 7 7 = 16

$$\frac{3}{y+z} = \frac{2}{y} \qquad 3y = 2(y+2)$$

$$3y = 2y + 4$$

$$-2y - 2y$$

$$y = 4$$

Part: Part on Part: total

Angles in a triangle have a ratio of 1:2:3

2:2:5

 $(6) \times \frac{3}{180}$ $(6) \times \frac{3}{180}$ $(6) \times \frac{3}{180}$

2:2:3 1x 2x 9x=180 x=20 There are 37 girls and 23 boys in 11th grade what is the ratio of boys to total students in 11th grade $\frac{23}{37+23} = \frac{23}{60}$

7461-463 2-60 even