

- Consistent
- Pay attention to order

ratios proportions cross
multiplying

Ratio is a comparison of
two numbers: "to" " " " "
" : " " - " "
" / "

7 girls in class
12 boys in class

$$\frac{7}{12}, \frac{12}{7}, \frac{12}{19}, \cancel{\frac{7}{19}}$$

2 to 5

fleece : blue polo

5 to 2

$\frac{5}{2}$

blue polo : fleece

Proportion is two
equivalent ratios

$$\frac{2}{5} = \frac{(\textcircled{?})x}{20}$$

$$5x = 2 \cdot 20$$

$$\frac{5x}{5} = \frac{40}{5}$$

$$\boxed{x = 8}$$

$$\frac{3}{7} = \frac{(x+2)}{14}$$

$$7(x+2) = 3 \cdot 14$$



$$\frac{x^2}{9} = \frac{(x+1)}{4}$$

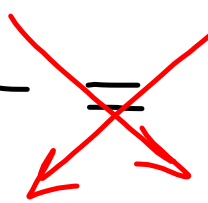
$$9(x+1) = 4 \cdot x^2$$

$\frac{3}{6} = \frac{9}{18}$

Means

extremes

$3 \cdot 6 = 9 \cdot 18$

$$\frac{5}{10} = \frac{1}{2}$$


$$10 \cdot 1 = 5 \cdot 2$$

$$10 = 10$$

✓

Cross products
Cross multiplying