

Proportions

Sept 6

$$\frac{1}{2} = \frac{3}{6} = \frac{4}{8}$$

3 = 6 = 9
4 = 8 = 12

80 miles in one hour is the same rate as 160 miles in two hours

$$\frac{80}{1} = \frac{160}{2}$$

5 ft in 1 second, how far in 6 seconds?

$$\frac{5\text{ft}}{1\text{sec}} = \frac{x\text{ft}}{6\text{sec}} \quad 5 \times 6 = 30, \quad \boxed{30\text{ft}}$$

Alex
Ovechkin
42 Goals
81-82

32 goals in 48 games, how many in 82 games?

$$\frac{32}{48} = \frac{x}{82}$$

check $32 \div 48 = 0.67$
 $54.67 \div 82 = 0.67$

Cross Multiply and Divide

$$32 \times 82 \div 48 = 54.67$$

$$\begin{array}{r} 3 \swarrow \times \\ \textcircled{4} \searrow 9 \end{array}$$

$$3 \times 9 \div 4 = 6.75$$

$$\begin{array}{r} \textcircled{5} \swarrow \times \\ 3 \searrow 4 \end{array}$$

$$3 \times 4 \div 5 = 2.4$$

$$\begin{array}{r} 3 \swarrow \times \\ \textcircled{5} \searrow 10 \end{array}$$

$$3 \times 10 \div 5 = 6$$