

Practice with Proportions & Law of Proportions
The Product of Outside equals The Product of Inside

Connect & Investigate: Outside Numbers & Inside Numbers!
 Determine is Proportion True or False! Does Outside = Inside?
 (DRAW Connecting Lines for Inside & Outside Numbers)
 A Ratio compares (2) Numbers! A Proportion is (2) equal Ratios!

$$\begin{array}{c} \overline{\quad} \quad \overline{\quad} \\ 4 : 5 = 8 : 10 \\ \underbrace{\hspace{1.5cm}} \end{array}$$

$$\begin{array}{c} \overline{\quad} \quad \overline{\quad} \\ 6 \text{ to } 9 = 2 \text{ to } 3 \\ \underbrace{\hspace{1.5cm}} \end{array}$$

$$2 \text{ to } 3 = 4 \text{ to } 6$$

$$3 \text{ to } 4 = 6 \text{ to } 8$$

$$3 : 5 = 6 : 10$$

$$4 : 6 = 10 : 15$$

$$6 / 9 = 2 / 3$$

$$9 / 15 = 3 / 5$$

$$2 \text{ to } 3 = 4 \text{ to } 6$$

$$3 \text{ to } 4 = 6 \text{ to } 8$$

$$5 : 3 = 10 : 6$$

$$5 : 6 = 10 : 12$$

$$6 / 9 = 2 / 3$$

$$6 / 12 = 4 / 8$$

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The Product of Outside equals The Product of Inside

Change Percentage to Proportion ! Check it !
 Determine if Proportion is right! use Law of Proportions!
 A Percent is a Special Ratio comparing a Number to 100 !
Second Ratio: (Is) Number Inside & (Of) Number Outside!

$$50\% \text{ of } 4 \text{ is } 2 \quad \text{Percentage to Proportion} \quad \begin{array}{c} \overline{\quad} \quad \overline{\quad} \\ 50 \text{ to } 100 = 2 \text{ to } 4 \\ \underbrace{\hspace{1.5cm}} \end{array}$$

$$25\% \text{ of } 8 \text{ is } 2$$

$$50\% \text{ of } 6 \text{ is } 3$$

$$75\% \text{ of } 8 \text{ is } 6$$

$$150\% \text{ of } 6 \text{ is } 9$$

$$75\% \text{ of } 12 \text{ is } 9$$

$$125\% \text{ of } 8 \text{ is } 10$$

$$25\% \text{ of } 12 \text{ is } 3$$

$$50\% \text{ of } 8 \text{ is } 4$$

$$225\% \text{ of } 8 \text{ is } 18$$

$$75\% \text{ of } 8 \text{ is } 6$$

$$25\% \text{ of } 12 \text{ is } 3$$

$$50\% \text{ of } 10 \text{ is } 5$$