

Formula Practice Problems

Highlight the 2 amounts and what you are going to solve by clicking on the boxes that best cover the amounts and what you are going to solve.

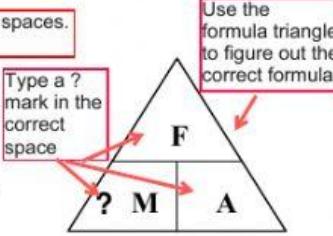
1) A batter hits a baseball with **500 N** of force and the ball is accelerated at **25 m/s²**. What is the **mass** of the ball?

Type the amount or a ? in the spaces.

$$F = 500 \text{ N}$$

$$M = ?$$

$$A = 25 \text{ m/s}^2$$



Type the formula into the boxes. Use / for divide and X for times.

$$\text{Formula: } M = F / A$$

Type the correct amounts to match the units of the formula above

Formula with amounts:

$$M = 500 / 25$$

Type the answer amount and the unit in the answer boxes

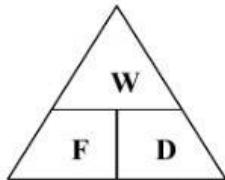
$$\text{Answer with unit: } 20 \text{ kg}$$

2) Tammie uses a force of 60 Newtons to lift her Christmas presents while doing 180 Joules of work. How far did she lift the presents?

$$W =$$

$$F =$$

$$D =$$



$$\text{Formula: } \underline{\hspace{2cm}} =$$

Formula with amounts:

$$\underline{\hspace{2cm}} =$$

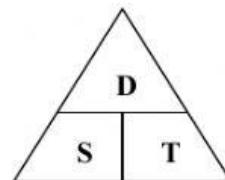
$$\text{Answer with unit: } \underline{\hspace{2cm}}$$

3) How far can you get away from your little brother with the squirt gun filled with paint if you can travel at a speed of 3 m/s and you have 15 seconds before he sees you?

$$S =$$

$$D =$$

$$T =$$



$$\text{Formula: } \underline{\hspace{2cm}} =$$

Formula with amounts:

$$\underline{\hspace{2cm}} =$$

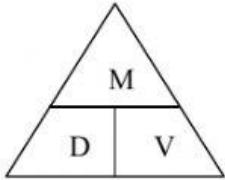
$$\text{Answer with unit: } \underline{\hspace{2cm}}$$

4) My paperweight has a mass of 50 g and a density of 2.5 g/cm³. How much volume does it take up?

$$D =$$

$$M =$$

$$V =$$



$$\text{Formula: } \underline{\hspace{2cm}} =$$

Formula with amounts:

$$\underline{\hspace{2cm}} =$$

$$\text{Answer with unit: } \underline{\hspace{2cm}}$$