

Formula Practice Problems

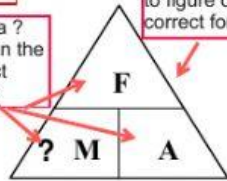
Highlight the 2 amounts and what you are going to solve by clicking on the boxes that best cover the amounts and what you are going to solve.

- 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 N
M= ?
A= 25 m/s²

Type a ? mark in the correct space



Use the formula triangle to figure out the correct formula

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

Formula: $M = F / A$

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

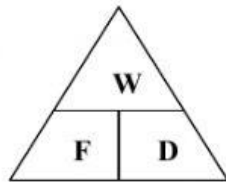
Formula with amounts:
 $M = 500 / 25$

Type the answer amount and the unit in the answer boxes

Answer with unit: 20 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= _____



Formula: _____ = _____

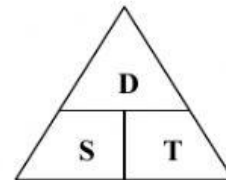
Formula with amounts:

_____ = _____

Answer with unit: _____

- 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= _____



Formula: _____ = _____

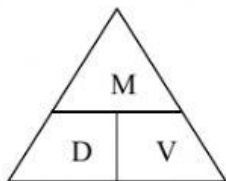
Formula with amounts:

_____ = _____

Answer with unit: _____

- 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 = _____



Formula: _____ = _____

Formula with amounts:

_____ = _____

Answer with unit: _____