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.

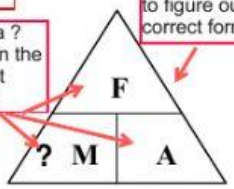
F= 500 N

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

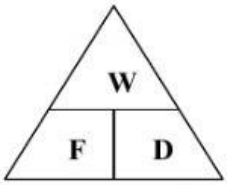
Answer with unit: 20 kg

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:

_____ = _____

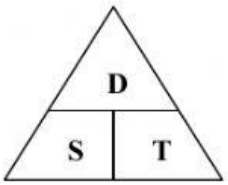
Answer with unit: _____

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:

_____ = _____

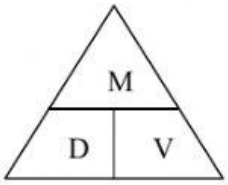
Answer with unit: _____

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: _____

LIVEWORKSHEETS