

Name(s) _____

Solve.

- 1) You have taken up gardening for relaxation and have decided to fence in your new rectangular shaped masterpiece. The length of the garden is 2 meters and 46 meters of fencing is required to completely enclose it. What is the width of the garden?

- 2) You are varnishing the background for a rectangular mural. The base of the mural is $6\frac{1}{2}$ meters and the height of the mural is 3 meters. How many cans of varnish will you need if each can covers 10 square meters?

Substitute the given values into the formula and solve for the unknown variable.

$$3) \quad A = \frac{1}{2}(b + B)h;$$

$$A = 95, b = 19, B = 19$$

Solve the equation for the indicated variable.

$$4) \quad I = Prt \quad \text{for } r$$

$$5) \quad V = \frac{1}{3}Ah \quad \text{for } A$$

$$6) \quad A = P + PRT \quad \text{for } T$$

$$7) \quad S = 2\pi rh + 2\pi r^2 \quad \text{for } h$$

$$8) \quad A = \frac{1}{2}h(B + b) \quad \text{for } B$$

Answer Key

Testname: M050_9.5WKS

1) 21 m

2) 2 cans of varnish

3) 5

$$4) r = \frac{l}{Pt}$$

$$5) A = \frac{3V}{h}$$

$$6) T = \frac{A - P}{PR}$$

$$7) h = \frac{S - 2\pi r^2}{2\pi r}$$

$$8) B = \frac{2A - bh}{h}$$