

Name : \_\_\_\_\_

Metric units: S3

## Rearranging Formulae

- 1) The volume  $V$  of a rectangular prism is calculated using the formula  $V = lwh$ , where  $l$  is the length,  $w$  is the width and  $h$  is the height of the prism. Rearrange the formula to make length( $l$ ) the subject.

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

Find the length of a rectangular prism, if the width is 2.2 cm, height is 15 cm and volume is  $594 \text{ cm}^3$ .

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

- 2) The formula to find force ( $F$ ) is  $F = ma$ , where  $m$  is the mass and  $a$  is the acceleration. Rearrange the formula to  $F$ , by rearranging the formula to make  $F$  the subject of the formula.

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

Determine the temperature ( $T$ ) in  $^{\circ}\text{C}$ .

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

- 3) The simple interest ( $I$ ) is calculated using the formula  $I = Prt$ , where  $P$  is the principal amount,  $r$  is the interest rate and  $t$  is the time in years. Make  $r$  the subject of the formula.

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

Serena took out a loan of  $\text{£}20,000$  towards her loan, and she paid an interest of  $\text{£}2,310$ .

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

- 4) Power  $P$  is expressed in the equation  $P = \frac{W}{t}$ , where  $W$  is the work done and  $t$  is the time taken to complete the work. Rearrange the formula to make work( $W$ ) the subject.

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

A machine requires 25 Joule/second of power to complete the work in 18 seconds. How much work can be done?

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

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