Name : _____

Rearranging Formulae

Customary units: S3

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 = _____

Find the length of a rectangular prism, if the width is 2.2 inches, height is 15 inches and volume is 594 cubic inches.

l = _____

2) The formula to finc ... the subject of the formula to F, by rea ...

F = _____

Determine the tem ... 37 °C.

F = _____

3) The simple interest ... terest rate and t is the time in years. Make ... ula.

r = _____

Serena took out a l ... paid an interest of $2,310 towards her loan, v ...

r = _____

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 = _____

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

W = _____

Name : _____

Answer key

Rearranging Formulae

Customary units: S3

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 = $\frac{V}{wh}$

Find the length of a rectangular prism, if the width is 2.2 inches, height is 15 inches and volume is 594 cubic inches.

l = 18 inches

2) The formula to find the subject of the formula to F, by rea

F = ___

Determine the tem 37 °C.

F = ___

3) The simple interest rate and t is the time in years. Make ula.

r = ___

Serena took out a l paid an interest of $2,310 towards her loan, v

r = ___

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 = Pt

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

W = 450 J