

Proportionality Worksheet 1

Solutions

1. $n \propto m$ slope = 5

2. $A \propto B$ slope = $\frac{2}{5}$

3. $T \propto L$ slope = $3b$

4. $d \propto a$ slope = $\frac{6bc}{e}$

Proportionality Worksheet 2

Solutions

1. $n \propto \frac{1}{m}$ slope = 5

2. $d \propto \frac{1}{e}$ slope = $6abc$

Proportionality Worksheet 3

Solutions

Table 1

a		b
1.0		3.1
2.0		6.3
3.0		9.4
4.0		12.6
5.0		15.7

Likely relationship:

$$b \propto a$$

Slope:

3.2

Equation:

$$b = 3.2a$$

Table 2

m	$1/m$	n
1.0	1.0	0.50
2.0	0.50	0.26
3.0	0.33	0.17
4.0	0.25	0.14
5.0	0.20	0.12

Likely relationship:

$$n \propto \frac{1}{m}$$

Slope:

0.50

Equation:

$$n = 0.50 \frac{1}{m}$$

Table 3

i	i^2	j
1.0	1.0	2.4
2.0	4.0	8.2
3.0	9.0	18.7
4.0	16	32.8
5.0	25	50.3

Likely relationship:

$$j \propto i^2$$

Slope:

2.0

Equation:

$$j = 2.0i^2$$