

Direct Proportionality

1. The relationship between A and L is directly proportional. Copy and complete this table:

L	4	6		72		14
A	12	18	60		114	

2. The relationship between K and V is directly proportional. Copy and complete this table:

V	7.2	18	6		9	
K	0.2	0.5		0.48		0.25

3. Copy the table(s) below that contain values that are directly proportional and explain your choice showing calculations:

R	7	4.9	12
T	12	2.8	20.5

H	8	14	29.6
A	14	2.45	51.8

X	7	-16.8	-3.92
Y	12	-28.8	-6.72

K	8	-9.6	-1.08
T	-2.5	3	0.3375

4. Copy and complete this table given that D is directly proportional to E.

E	4	-6		7.2		-14	
D	-1.5	2.25	3.75		-60		114

5. The speed (v) of a falling object is directly proportional to the time (t) it has been falling. After 10 seconds a falling stone is traveling at 98 metres/sec,

a) What was its speed after 4 seconds?

b) At what time will its speed be 100 miles per hour?

(25.4 mm = 1 inch, 63360 inches in 1 mile, 3600 seconds = 1 hour)