

March 9th

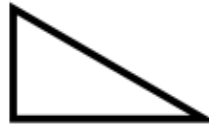
5-a-day

Numeracy

Sketch an isosceles triangle



Sketch a right angled triangle



Name a quadrilateral which only has one line of symmetry

A kite

What is the order of rotational symmetry for this shape?

2



A bag contains the letters A, B and C.

A second bag contains the numbers 1, 2, 3 and 4.

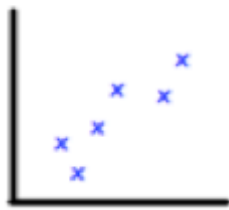
A letter and number is drawn.

List all possible outcomes

A1 B1 C1
A2 B2 C2
A3 B3 C3
A4 B4 C4

What is the probability of selecting A2?

$\frac{1}{12}$



Positive

What type of correlation?



Show "no correlation."

Red Red Red Yellow Red

What is the relative frequency of a yellow?

$$\frac{1}{5} \text{ or } 0.2$$

If experiment is repeated 100 times, how many yellows would you expect?

$$100 \times 0.2 = 20$$

A car travels 60mph for 2 hours 30mins.

How far does it travel?

$$60 \times 2.5 = 150 \text{ miles}$$

A car travels 200 miles in 8 hours. What is its average speed?

$$200 \div 8 = 25 \text{ mph}$$

Age	Frequency
6	3
7	5
8	2

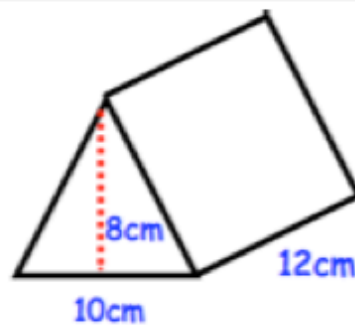
$$\begin{array}{r} f_2 \\ 18 \\ 35 \\ 16 \\ \hline 69 \end{array}$$

Calculate the mean

$$69 \div 10 = 6.9$$

Calculate the volume of this prism.

$$\begin{aligned} \frac{1}{2} b \times h & \\ 5 \times 8 &= 40 \text{ cm}^2 \\ 40 \times 12 &= 480 \text{ cm}^3 \end{aligned}$$



$$y = mx + c$$

make x the subject

$$y - c = mx$$

$$\frac{y - c}{m} = x$$

W varies directly to \sqrt{C} . If $W = 60$ when $C = 36$, find:

W when $C = 64$

$$60 = k \times 6 \quad k = 10$$

$$W \propto \sqrt{C}$$

$$W = k\sqrt{C}$$

$$60 = k \times \sqrt{36}$$

$$W = 10\sqrt{C}$$

$$W = 10 \times \sqrt{64}$$

$$= 10 \times 8 = 80$$

C when $W = 160$

$$W = 10\sqrt{C}$$

$$160 = 10\sqrt{C}$$

$$16 = \sqrt{C}$$

$$C = 256$$



This can has a mass of 350g to the nearest 10g.

345g

What is the minimum mass of 10 of these cans?

$$345 \times 10$$

$$3450g \quad 3.45kg$$



$$\frac{1}{3} \pi r^2 h$$

$$\frac{1}{3} \pi \times 3^2 \times 5$$

A cone has base with radius 3cm and perpendicular height 5cm.

Calculate its volume

$$= 47.1 \text{ cm}^3$$