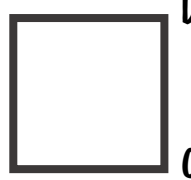# Learning Grid – Foundation Calculator (Roll two dice, find a question)

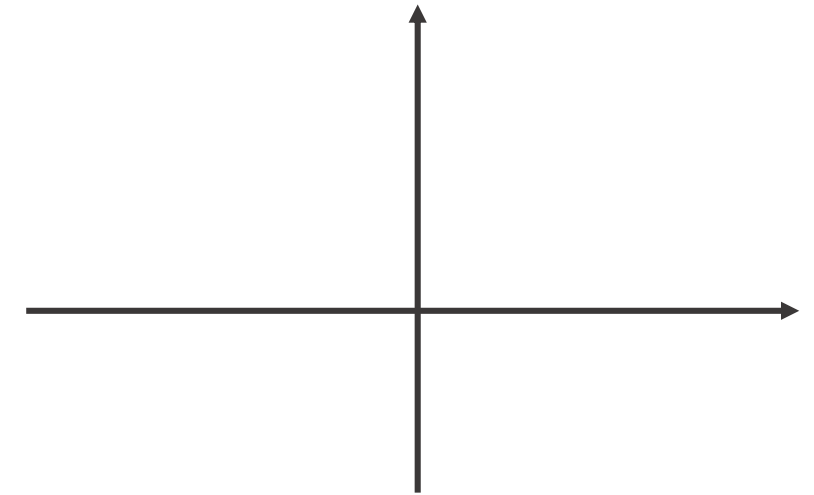**6**

Write 0.012 as a fraction

Here is the probability of different drinks chosen at a café:
a) Coffee 54%   b) Tea 26%
c) Water 13%   d) Juice x%
Work out the value of x

ABCD is a square.
BC = 4.9cm

Find the length BD

Circle A has radius 4cm, Circle B has a radius 1cm larger than circle A. What is the difference in their areas?

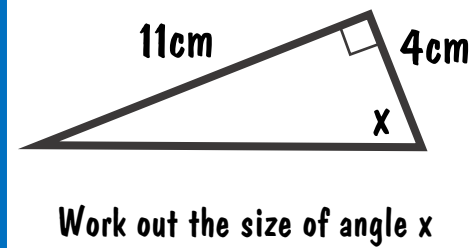Draw the graph of $y = 2x + 1$ from values -2 to 2

5

Can I square a prime number to give an even answer? Prove it

Change 8.6cm into millimetres

Find the value of 6^4

11cm   4cm   x

Work out the size of angle x

4

Share £120 in the ratio 1:3

How many vertices?

There are 3 times as many red pens than green pens. Write this as a ratio in its simplest form.

If there are twice as many blue than green, and 3 times as many green than red. Write the ratio of blue to green to red as a ratio.

A car cost £30,000
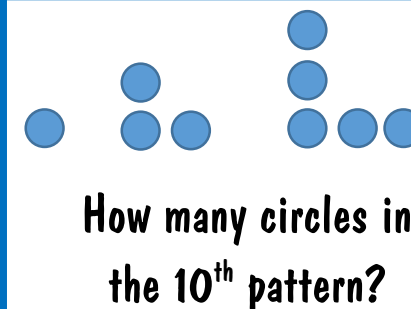It depreciates 20% in the first year and 10% in the second year. What is the cost?

If I cube a negative number do I always get a negative answer? Explain

3

How many 230ml cups can I <u>fill</u> from 18.5 litres of water?

---

5 apples & 4 pears cost £2.68
3 apples & 2 pears cost £1.55

Work out the cost of 1 apple and 1 pear.

$$\frac{3}{5} + \frac{2}{7} = \frac{5}{12}$$

Explain why it is not correct

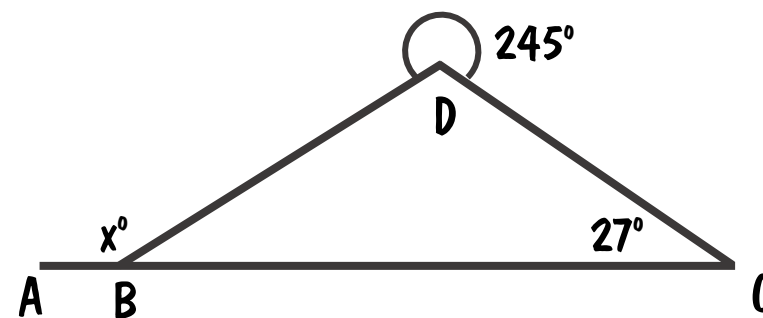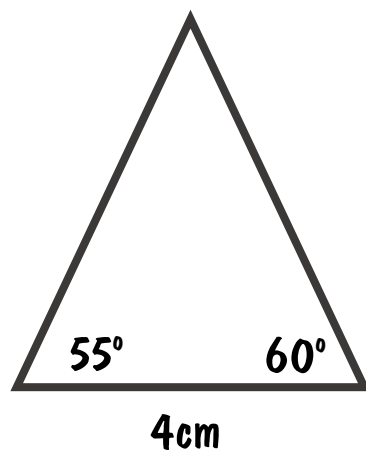How many circles in the 10th pattern?

There are 5 different sweets in a tube, red, blue, green, pink and yellow. What is the probability of taking a red and a blue sweet?

Work out:
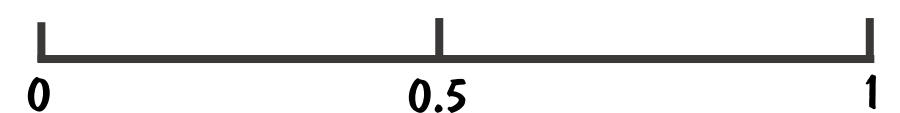
a) 1/3 of 90

b) 80% of 30

2

1

Draw this triangle accurately using a protractor!

55°   60°
4cm

245°
D
x°   27°
A   B   C

Work out the size of the angle marked x

<u>Give reasons for your answer!</u>

---

0   0.5   1

Mark on the scale the probability of:

a)   A fair dice landing on a 4
b)   You will have something to eat tomorrow
c)   A boy chosen at random was born in January

1   2   3   4   5   6