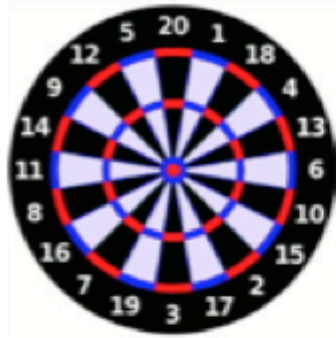


February 2nd

5-a-day

Numeracy



1 and 18 are next to each other and they have a sum of 19.

What are the three other pairs of numbers that are next to each other with a sum of 19?

11, 8

13, 6

17, 2

List the first five multiples of 9.

9 18 27 36 45

Find a multiple of 4 and a multiple of 5, that add to make a multiple of 6.

$$12 + 30 = 42$$

$$8 + 10 = 18$$

$$4 + 20 = 24$$

etc

Three whole numbers have a mean of 20. None of the numbers is equal to 20.

Write down three possible numbers.

Add up to 60.

15 15 30

10 10 40 etc

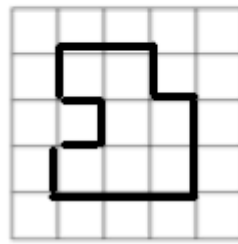
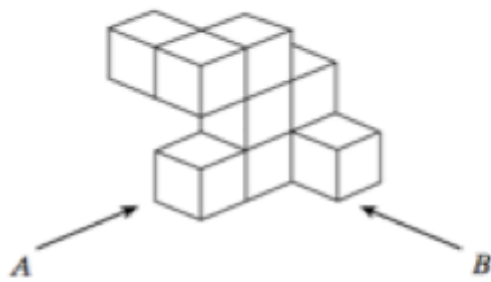
Bob has £1.65

Jill has 75p

$$\} £2.40 \div 2 = £1.20$$

How much money must Bob give Jill so that they end up with the same amount?

45p .



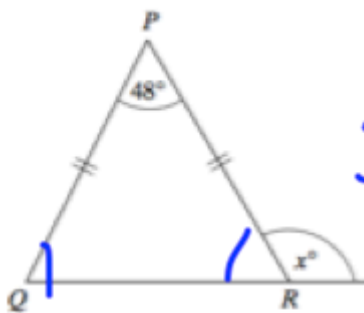
Draw the view from B

£400 is invested at 10% interest per year for 2 years.

How much interest is earned?

£84

1<sup>st</sup> year £440  
2<sup>nd</sup> year £484



$$\begin{array}{r} 180 \\ - 48 \\ \hline 132 \end{array}$$

Calculate x

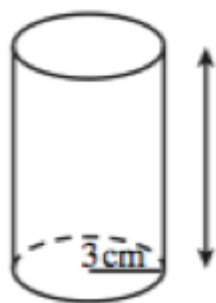
$$132 \div 2 = 66^\circ$$

$$180 - 66 = 114^\circ$$

Solve

$$5x + 4 > 34$$

$$\begin{array}{l} 5x > 30 \\ x > 6 \end{array}$$



Calculate the volume

$$\begin{aligned} &\pi \times 3^2 \times 10 \\ &= \pi \times 90 = 282.74 \text{ cm}^3 \end{aligned}$$

February 2

5-a-day

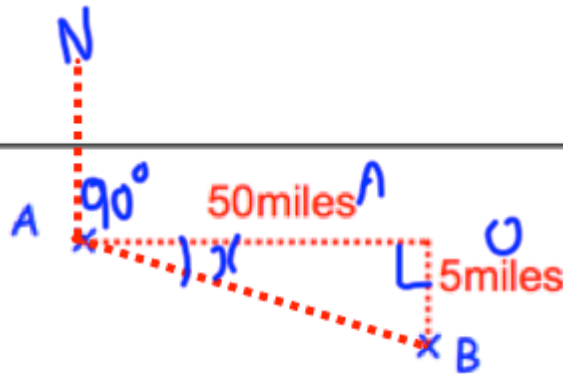
Higher

Factorise  $x^2 + 4x + 3$ 

$$(x + 3)(x + 1)$$

Factorise  $x^2 - 3x + 2$ 

$$(x - 2)(x - 1)$$



Calculate bearing AB.

$$\tan x = \frac{5}{50} = \frac{1}{10}$$

$$x = 5.71^\circ$$

bearing  $95.7^\circ$ 

In 2012 the number of golfers in a club is 450.

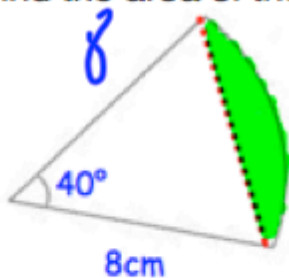
In 2014 the number of golfers was 520.

Work out the percentage increase.

$$\frac{70}{450} \times 100$$

$$15.5\%$$

Find the area of the segment



segment

$$1.771 \text{ cm}^2$$

$$\text{Triangle } \frac{1}{2} \times 8 \times 8 \times \sin 40$$

$$= 20.57 \text{ cm}^2$$

$$\text{Sector } \frac{40}{360} \times \pi \times 8^2 = 22.34 \dots \text{ cm}^2$$