

Starter

1. Gerry bought a shirt in the Next sale which had been reduced by 32%. The shirt cost him £22. What was the price of the shirt before it was on sale?

2. Change the subject of the formula to k.

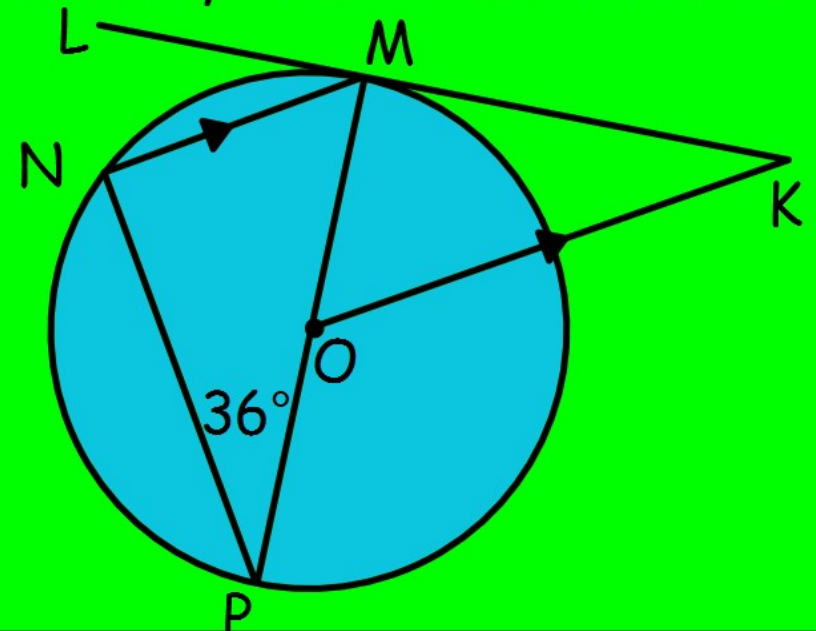
a. $4p + k = 8$

b. $m = \frac{y}{4k}$

c. $j = 6 - \sqrt{fk}$

3. Find the coordinates of the point where the line $y = 3x - 5$ crosses the line $4x + y = 3$.

4. Find the size of angle OKM .
(KL is a tangent to the circle)



Starter

1. A straight line is given by the equation $x - 6y = 9$.
Find the line's gradient and the y-intercept.

2. Express as a single fraction

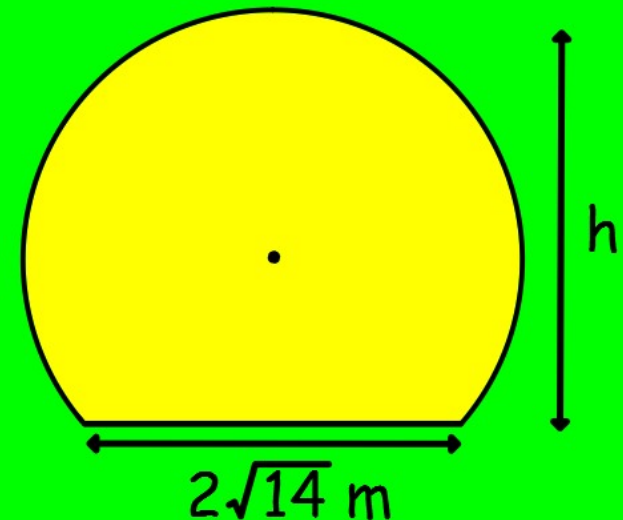
a. $\frac{3k}{2} \div \frac{k}{12}$

b. $\frac{4p - 1}{5} - \frac{3}{p}$

3. Sarah has a collection of gold jewellery which appreciates in value by 4.77% per annum.

If it was worth £2,430 in 2010, how much will it be worth in 2016?

4. Find the height, h , of the tunnel below as a surd in its simplest form given the radius of the tunnel is $\sqrt{32}$ m.



Starter

1. Find the volume of a cone with a radius of 3cm and height of 5cm.
Take $\pi = 3.14$.

2. Sketch the lines below

a. $y = 4x - 6$

b. $y = -2x + 5$

c. $x = -2$

3. The data given below represents ages of pilots currently working for British Airways.

41, 41, 43, 46, 48, 49, 51, 53, 53, 53, 54,
54, 54, 55, 56, 56, 56, 57, 59, 60, 65, 65

Find the five-figure summary for the data.

4. Factorise fully $14x^2 + 7x - 105$.

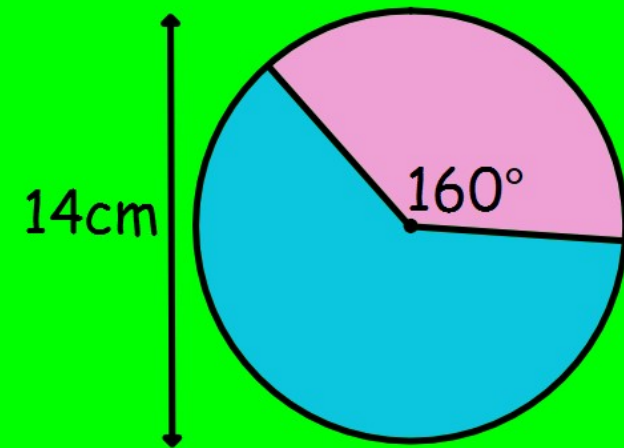
Starter

1. Expand the brackets and simplify

a. $4r(r - 6)(r + 1)$

b. $7y - (3y - 6)(y + 2)$

2. Find the area of the major sector shown opposite.



3. Find the standard deviation of the numbers given below.

5, 4, 8, 7

4. Find the height, h , of the triangle shown opposite.

