

15

16

ard Level

Number and Number Process

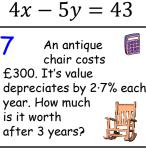
## Express the following with a rational denominator

and simplify

5

REGULAR

**PENTAGON** 



A function is

system of equations...

9x + 2y = 4

Solve the

following

4 line passing through  $10\ 000\overline{4}$ (-2,4) and (1,-8)9 Solve the Multiply out the equation following brackets and simplify...  $8 \sin x^{\circ} + 1 = 0$ 

Identify the y-

intercept, the

 $(x + a)^2 + b$ .

Determine whether

this triangle is

right-angled...

coordinates and nature

of symmetry.

14

20

26

if required... 10 Calculate the standard deviation of the following data set... 3, 8, 9, 12, 15, 17, 20, 28

11 Determine the gradient and the y-intercept of the following equation... 3y = x + 21Shown is the graph

July National 5 Maths Calendar

#abitofmathseveryday

sizes of

interior

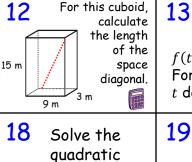
exterior

angles?

the

and

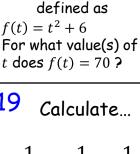
What are the

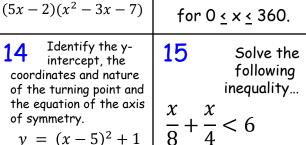


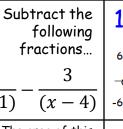
equation

Factorise...

 $7n^2 - 4n - 3$ 

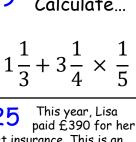






form...

y = acosbx°. What are the values of a and b?  $x^2 + 2x - 15 = 0$ The radius of



Calculate the length

of the missing side...

48 cm

the equation of the axis of symmetry. 
$$y = (x-5)^2 + 1$$

$$\frac{x}{8} + \frac{x}{4} < 6$$
Write the following in the form...
$$\frac{x}{8} + \frac{x}{4} < 6$$
and vector in

(x + 1)(x-4)The area of this triangle is 56.43 cm2 36° Calculate

23 45°

Change the subject of the formula to r...
$$u = \left(\frac{r}{s}\right)^2 - t$$

30

Volume

3.05208

r mm

pet insurance. This is an increase of 30% on last year's payment. How much did Lisa pay last year?

109 cm

of symmetry. 
$$y = (x-5)^2 + 1$$
  $\frac{x}{8} + \frac{x}{4} < 6$ 

20 Write the following in the form...  $(x+a)^2 + b$ .  $x^2 - 12x + 25$  Calculate  $|2m-3n|$ .

26 Simplify...

 $x^2 - 81$ 

 $x^2 + 7x - 18$ 

$$x \text{ cm} \qquad 56.43 \text{ cm}^2$$

$$36^{\circ} \qquad \text{Calculate}$$

$$16 \text{ cm} \qquad \text{of the}$$

$$\text{missing side.}$$

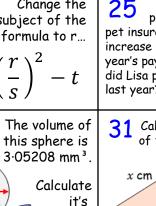
$$28 \text{ Write the following}$$

$$\text{in it's simplest}$$

$$\text{index}$$

$$2k^{\frac{1}{4}} \times 9k^{\frac{35}{4}} \text{ form...}$$

6*k* 



radius...