

#abitofmathseveryday Change the Find the

following

fractions...

A mobile phone is subject of the reduced by 30% equation of the formula to f...

June National 👼 Maths Calendar

following in the in the summer form... sales and now  $(x + a)^2 + b$ .  $100^{\overline{2}}$ costs £175.  $x^2 - 8x + 10$ 

How much did it cost before the sale started?

11

 $4p^3$ 

line passing through (-2, -3) and (1, 9). Divide the 12

Calculate the standard deviation of the following data set...

following system of equations... 2x + 5y = 183x - 2y = -11Solve the 15 following equation...

ard Level

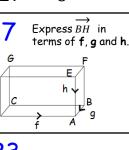
Solve the

10

Solve

giving your solutions to 1 decimal place... The volume of this cone is 803.84 cm<sup>3</sup> 12 cm Calculate it's

 $2x^2 + 6x - 3 = 0$ 



18 Calculate... Multiply out 24

angle...

3, 7, 10, 24

19 Factorise...  $7d^2 - 2d - 5$ Solve the

19 cm

A function is

defined as

 $f(x) = x^2 - 7x$ 

Write the following

in it's simplest

Calculate the

Volume = ?

missing volume...

index

form...

Find f(-2).

 $\chi \overline{3} \times \chi \overline{3}$ 

Volume = 450 cm3

13

 $32 \cdot 7 m$ right angled... Determine the gradient and the y-intercept of the following equation...

Determine

whether

triangle

this

Express this

fraction in

it's simplest form...

2z + 10

 $z^2 - 2z - 35$ 

3x + 7y = 28

Express the

denominator

and simplify

if required...

a rational

following with

8

14

 $72 \cdot 8 m$ 

20

26

18

 $55 \cdot 3 m$ 

A caravan is bought for £40 000. The value of the caravan depreciates at a rate of 8% for the first year and 5% in the second year. Calculate the value of

Find the

the turning point of

 $y = x^2 + 4x - 21$ 

the parabola with

equation...

coordinates of

r cm 22 What are the the caravan after 2 years.

120°

12 m

28

sizes of h and i? Calculate the lenath of this minor

radius...

arc (use

 $\pi = 3.14$ )...

23 Calculate the semi-interquartile range of the following data set... 6, 10, 12, 14, 17, 24, 25, 27 Calculate the 29 equation B(125, 600) of the line of best fit. A(25, 200)

25 the following equation brackets and simplify... 9 tan  $x^{\circ}$  + 3 = 1 for 0 < x < 360.  $(4x-9)(x^2-3x+10)$ 30 14 cm 8 cm Calculate the size of the missing