

and simplify...

10

 $7p^2$

16

X...

Express

 $6a - b + \frac{1}{2}c$

in component

Divide the

fractions...

following

 $\mathbf{a} = \begin{pmatrix} 1 \\ -3 \\ 0 \end{pmatrix}$

#abitofmathseveryday Find the 6

Multiply out the equation of the Simplify... following brackets line passing

through...

12

18

(3,8) and (7,-4)

 $x^2 - 16x$

 $x^2 - 14x - 32$

17 The temperature in

by 3% per hour. At

is 26°C. What will

be at midnight?

the temperature

8pm the temperature

a greenhouse drops

Simplify...

11

April National 👼 Maths Calendar

 $y = (x+a)^2 + b.$ $v = x^2 - 4x + 5$ $\sqrt{80} + \sqrt{5} - \sqrt{45}$ 70, 71, 72, 78, 79

formula to u... following brackets and simplify... $(3x-7)(x^2-6x-2)$ $(4x-5)(x^2-7x+8)$ Find the point 8 Evaluate... of intersection between the straight lines 5x + 2y = 7 $36\overline{2}$

14

20

26

for 0 < x < 360.

data set...

13 Factorise... $50x^2 - 72y^2$ 19 Solve the

Write the

Calculate the

data set...

standard deviation

of the following

form...

following in the

and 2x - 3y = 37. 15 Calculate the Calculate the size of the semi-interquartile missing 42 m range for the following angle... 40 m 2, 4, 7, 8, 12, 14, 18 43 m Shown is the

following equation... A function is

Express the 21 graph following with

form. Calculate the equation of the line

Determine the gradient and the y-intercept of the

 $(4x^3)^2$ 24 The volume of this cone is 11.51 m³. Calculate it's

Calculate...

Evaluate...

 $\frac{2}{5}$ of $1\frac{1}{4} + \frac{3}{7}$

defined as For what value(s) of

 $y = \sin(x + a)^{\circ}$. a rational What is the denominator value and simplify of if required... α? A runner increased Solve the the distance he ran equation in a week by 20%. This week he ran $5 \tan x^{\circ} - 3 = 2$

36 miles. How far

previous week?

did he run the

of best A(20, 120)fit. 28 Find 55 cm the 26 cm value of

x cm

following equation... x - 3y = 12Identify the yintercept, the coordinates and nature of the turning point and the equation of the axis of symmetry. $y = 7 - (x - 4)^2$

 $f(a) = a^2 + 2a - 1$ a does f(a) = 7? radius.. The following 30 cm milk bottles are 20 cm mathematically similar. Calculate the missing Volume = 270 cm³ Volume = 7 volume...