## Autumn Term Maths Activities

| Put the following numbers in order from |
| :--- |
| smallest to largest: |
| $-7,18,0,-20,5$ |
|  |

$$
\frac{3}{4}, \quad \frac{1}{8}, \quad \frac{1}{4}, \quad \frac{1}{2}
$$



It takes 6 eggs to make enough cake for b 14 people.

How many eggs will be needed to make enough cake for 21 people?


## Write as a decimal:



I think of a number, multiply it by 2 , subtract 4 then divide by 3 .
The result is 8 .
What number did I first think of? $\square$

The scatter graph shows the time spent training and the time taken spent training and the time taken
to run 100 m for 10 members of The Whippets Running Club.

Describe the correlation shown.


## Evaluate:

$2 \times 3+3 \times 7=$

$8+(2+3) \times 4=\square$


## Autumn Term Maths Activities




Use a pair of compasses and ruler to construct the perpendicular bisector of this line. Do not erase your construction lines.

There are 30 children in 9C at Yulurn Hir School. 12 of them have a dog. 11 of them have no cat or dog. 8 of them have cats.

Show this information on the Venn Diagram.


## Autumn Term Maths Activities



## From this list of numbers:

$8,9,10,11,12,13,14,15,16$
Give:
a square number
 a cube number

a multiple of 6 $\square$
a factor of 16

a prime number $\square$
a triangular number $\square$

Write as a fully simplified fraction:
25\%

0.3


$2^{4}=$ $\square$

Translate the shaded triangle 6 places left and 2 up.

Rotate the shaded triangle around the point $(0,0) 90^{\circ}$ in an anti-clockwise direction.


## Autumn Term Maths Activities

Round 34349 to the nearest ten thousand.


Round 3.4654 correct to 1 decimal place.


There are some green, red, yellow and blue crayons in a box. The table shows the probability of taking each green, red and yellow when a crayon is picked at random from the box.

What is the probability that a blue is picked?

| Colour | Green | Red | Yellow | Blue |
| :--- | :--- | :--- | :--- | :--- |
| Probability | 0.3 | 0.1 | 0.4 |  |




## Autumn Term Maths Activities



| You can buy 16 mini gingerbread men for b |
| :--- |
| 96 p at Pixie's Bakery. At Elvis's Bakery you |
| can buy 5 for 34 p. |
| Which bakery offers better value for money? |
| Show all of your working. |
|  |

$A B C$ is a straight line, $B D=C D$, angle $B D C=40^{\circ}$.
Find the value of $x$. Give reasons for your answer.
$\square$
$x=$

A
B
C

A cuboid has length 40 cm , width 35 cm d
and height 1 m . What is its volume?


What is the probability that, when 2 e coins are tossed, both will land on head?

Simplify the ratio 6:10.


Annie and Billy share $£ 25$ in the ratio 2:3. How much money does each get?

Annie: $\square$ Billy: $\square$

## Autumn Term Maths Activities

Find the highest common factor 8 and 12.
$\square$

Find the area and the perimeter of this b triangle.

Area: $\square$ Perimeter: $\square$

$4,8,12,16, \ldots$
What is the term to term rule in this sequence?


What is the 30th term in the sequence?


On the axes below, draw the graph of :
a) $y=3$
b) $x=-2$
$3,9,27,81, \ldots$
What is the term to term rule in this sequence?


What is the next term?



## Autumn Term Maths Activities Answers



It takes 6 eggs to make enough cake for 14 people.

How many eggs will be needed to make enough cake for 21 people?



Evaluate:


I think of a number, multiply it by 2 , subtract 4 then divide by 3 .
The result is 8 .
What number did I first think of? 14

The scatter graph shows the time spent training and the time taken to run 100 m for 10 members of The Whippets Running Club.

Describe the correlation shown.
Negative correlation


## Autumn Term Maths Activities Answers


 construct the perpendicular bisector of this line. Do not erase your construction lines.


There are 30 children in 9C at Yulurn Hir School. 12 of them have a dog. 11 of them have no cat or dog. 8 of them have cats.

Show this information on the Venn Diagram.


## Autumn Term Maths Activities Answers


twinkl

## Autumn Term Maths Activities Answers

Round 34349 to the nearest ten thousand.
30000

Round 3.4654 correct to 1 decimal place.
3.5


There are some green, red, yellow and blue crayons in a box. The table shows the probability of taking each green, red and yellow when a crayon is picked at random from the box.

What is the probability that a blue is picked?

| Colour | Green | Red | Yellow | Blue |
| :--- | :--- | :--- | :--- | :--- |
| Probability | 0.3 | 0.1 | 0.4 | $\mathbf{0 . 2}$ |



## Autumn Term Maths Activities Answers

| Increase $£ 40$ by 20\%. | £48 |
| :--- | :--- |
|  |  |

You can buy 16 mini gingerbread men for
$96 p$ at Pixie's Bakery. At Elvis's Bakery you
can buy 5 for $34 p$.
$A B C$ is a straight line, $B D=C D$, angle $B D C=40^{\circ}$.
Find the value of $x$. Give reasons for your answer.
$x=110^{\circ}$

Which bakery offers better value for money?
Show all of your working.

Pixie's Bakery

6p per gingerbread man at Pixie's.

So 5 gingerbread men would cost 30p at Pixie's.

A cuboid has length 40 cm , width 35 cm d and height 1 m . What is its volume?

## $140000 \mathrm{~cm}^{3}$



3:5
Annie and Billy share $£ 25$ in the ratio 2:3. How much money does each get?
Simplify the ratio 6:10.
$\square$
Annie:
£10
Billy:
£15

## Autumn Term Maths Activities Answers

Find the highest common factor of a 8 and 12.

4


Simplify:
$2^{3} \times 2^{5}=2^{8}$
$\frac{2^{9}}{2_{3}}=$
$2^{6}$
$4,8,12,16, \ldots$
What is the term to term rule in this sequence?

What is the 30th term in the sequence?
120
$3,9,27,81, \ldots$
What is the term to term rule in this sequence?

What is the next term?
243

On the axes below, draw the graph of :
a) $y=3$
b) $x=-2$


