## Divide by 1 and itself

Annie has 5 cookies and some plates.

She wants to put 1 cookie on each plate.
a) How many plates will she need? $\square$
b) Complete the calculation.

2) Annie has 5 more cookies.


She has 5 friends.
She shares the cookies equally between her 5 friends.
a) How many cookies does each child get? $\square$
b) Complete the calculation.

(3)
a) Complete the calculations.
$8 \times 1=$

$8 \div 1=$ $\square$
$13 \times 1=$ $\square$ $20 \times 1=$ $\square$
$13 \div 1=$ $\square$ $20 \div 1=$ $\square$
b) What do you notice about multiplying and dividing by 1 ?
c) Use what you have noticed to complete these calculations.

$$
\begin{aligned}
& 7 \times 1=7 \div \square \\
& 10 \div 1=10 \times \square \\
& \square \times 1=18 \div 1
\end{aligned}
$$

4. Tick all the cards that have an answer of 1


How do you know if a division has an answer of 1 ?
(5) Write $>,<$ or $=$ to compare the calculations.
a) $4 \times 0 \square 5 \div 1$
d) $13 \div 1$
 $31 \times 0$
b) $24 \times 1$

e)

c) $1 \times 9$
 $9 \div 1$
f) $10 \div 1 \square$
$10 \div 10$
(6) Work out these calculations.
a) $8 \div 4 \div 1=$ $\square$
b) $25 \div 1 \div 5=$ $\qquad$
c) $9 \times 4 \div 1=$ $\square$
9) Explain how each image shows $16 \div 1$

d) $12 \div 1 \times 4=$ $\square$
(7)

$$
Q \div V=\Delta
$$

Complete this calculation.

$$
\square \times \Delta=
$$

(8) Rosie has 14 birthday invitations.

She wants to give them out to children in her class.
Each child will get 1 invitation each.


What mistake has Rosie made?

Explain how each image shows $16 \div 1$
$\qquad$
$\qquad$

$\qquad$
$\qquad$


Complete the sentences.
There are 12 cubes.
There are $\square$ plates.

Each plate has $\square$ cubes.
12 divided into $\square$ equal groups is $\square$

Mo has 15 pencils.
He shares them equally into 3 pots.

## 



How many pencils will there be in each pot?
There will be $\square$ pencils in each pot.
(3) Divide 18 counters into groups of 3 counters. Draw a picture to show what this would look like.

How many groups did you draw? $\square$

There are 27 cakes.
A box can hold 3 cakes.


How many boxes of 3 cakes can be filled?
Use the number line to help you.


5 Complete the bar model for the division $33 \div 3=11$
$\square$
Is there more than one way to do this?
(6) Complete the division statements for each problem.
a) Esther has 21 balloons.

She puts them into 3 party bags.
How many balloons are in each party bag?

b) Nijah has 36 apples.

In each box there are 3 apples.
How many boxes are there?
$\square$ $\div$ $\square$ $=$ $\square$
c) 24 children stand in groups of 3

How many groups are there?
$\square$
$\square$ $=$ $\square$

7 Numbers that follow each other when you count are called consecutive numbers.

Three consecutive numbers can form a staircase.
Here is 4,5 and 6


When you add three consecutive numbers, the total can always be divided equally by 3

Is this statement correct?
Talk about it with a partner

Multiply by 3

I Complete the sentences.


There are $\square$ equal groups of $\square$
$\square$
$\square$
$\square$
$\square$
$\square$
$\square$ $=\square$
$\square$
b)


There are $\square$ equal groups of $\square$
$\square$

$\square$
$\square$ $\times \square$
c)

There are $\square$ equal groups of $\square$
$\square$
$\square$
$\square$
$\square$
$\square$
$\square$
$\square$
Could you write the number sentences in a different way?
2) Write two multiplication sentences for each part of the question.
a)

$\square$
$\square$
$\square$
b)

| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |



3 Complete the diagram.


Complete the number line.


5


Do you agree with Dora? $\qquad$
Explain why.
$\qquad$
$\qquad$

6 Which is the odd one out?
Tick your answer.


Explain your answer.
$\qquad$
$\qquad$

Is there more than one answer?

## Multiply and divide by 6

I Complete the sentences
a)

There are $\square$ boxes.
There are $\square$ eggs in each box.
There are $\square$ eggs altogether.
b)

$\square$ spiders.

There are $\square$ legs on each spider.

There are $\square$ legs altogether.
c)

$\square$ boxes.
There are $\square$ eggs in each box.
There are $\square$ eggs altogether.
(2)
a) Rosie has 30 strawberries.

##  त, तर 당 - तo - तo त

She shares them equally between 6 bowls.
a) Draw on the picture to show how Rosie shares the strawberries.
b) How many strawberries does Rosie put in each bowl?

Rosie puts $\square$ strawberries in each bowl.

These apples are being put into bags of 6


How many bags are needed?Complete the number sentences to describe the array

## !"..."

$\square$ $\times 6=$ $\square$
$\square$
$\square$ $\div 6=$

$\square$


A red ribbon is 6 cm long.
A yellow ribbon is 7 times as long as the red ribbon. How long is the yellow ribbon?

The yellow ribbon is $\square$ cm long.
6) There are 66 children sitting in rows.

There are 6 children in each row.
How many rows are there?

7 Nails come in boxes of 100
A crate holds 6 boxes.
A shop orders 4,800 nails.
How many crates does the shop order?
8. Teddy has an odd number of counters.

Do you agree with Teddy? $\qquad$
Why?


Why?
$\qquad$
$\qquad$

6 times-table and division facts

Write the multiplication fact to work out how many there are in total.
a)

$\square$ $\times$ $\square$ $=$ $\square$


$$
\square \times \square=\square
$$



Complete the facts represented by the array.

$\square$

$\square$
(3)

Fill in the gaps.

## 3 times-table


$1 \times 3=3$
$2 \times 3=6$
$3 \times 3=9$
$4 \times 3=\square$
$5 \times 3=$

$6 \times 3=18$

## 6 times-table

$0 \times 6=$ $\square$
$1 \times 6=$

$2 \times 6=12$
$3 \times 6=$

$4 \times 6=24$
$5 \times 6=$

$6 \times 6=$ $\square$

What patterns can you see?
Talk about it with a partner.
(4) Complete the number tracks.

| 30 | 36 |  |  |  | 60 | 66 |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| 36 | 30 | 24 |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

5 Complete the calculations.
a) $3 \times 6=$

g) $6 \times 6=$ $\square$
b) 2 $\square$ $=12$
h) $\qquad$ $\div 6=7$
c) $6 \times 4=$ $\square$
i) $6 \times$
 $=48$
d) $\square$ $\div 6=1$
j) $\square$ $\div 6=11$
e) $11 \times 6=$ $\square$
k) $10 \times 6=$

f) $\square$ $\times 6=30$
I) $\square$ $\times 3=30$

Colour the multiples of 6

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |

Use the grid to complete the calculations.


$$
78 \div 6=
$$

$\square$
(7)

Sort the number cards into the diagram.


|  | Multiples of 6 | Not multiples of 6 |
| :---: | :--- | :--- |
| Even numbers |  |  |
| Odd numbers |  |  |
|  |  |  |

Are any of the boxes empty?
Compare answers with a partner.Jack is thinking of two whole numbers.
The sum of the numbers is 13
The difference between the numbers is 1
What is the product of the numbers?

The product of the numbers is $\square$

