## Divide by 1 and itself



Annie has 5 cookies and some plates.





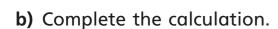






She wants to put 1 cookie on each plate.

a) How many plates will she need?





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?
- **b)** Complete the calculation.

a) Complete the calculations.

**b)** What do you notice about multiplying and dividing by 1?

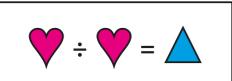
c) Use what you have noticed to complete these calculations.

Tick all the cards that have an answer of 1

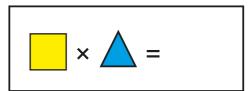
How do you know if a division has an answer of 1?



- Write >, < or = to compare the calculations.
  - a)  $4 \times 0$   $5 \div 1$
- **d)** 13 ÷ 1 ( ) 31 × 0
- **b)**  $24 \times 1$  ( )  $24 \div 1$
- e)  $8 \div 8$   $9 \div 9$
- c)  $1 \times 9$  ( )  $9 \div 1$
- **f)** 10 ÷ 1 ( ) 10 ÷ 10
- Work out these calculations.
  - a) 8 ÷ 4 ÷ 1 =
  - **b)** 25 ÷ 1 ÷ 5 =
  - c) 9 × 4 ÷ 1 =
  - d) 12 ÷ 1 × 4 =
- 7



Complete this calculation.



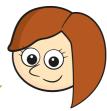
How did you work this out?

8 Rosie has 14 birthday invitations.

She wants to give them out to children in her class.

Each child will get 1 invitation each.

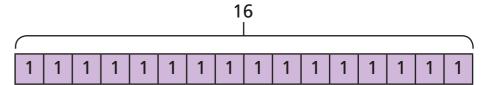
I did 1 ÷ 14 = 14
to work out how many
people I can give the
invitations to.

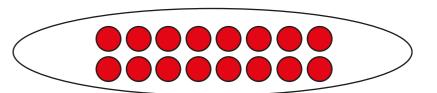


What mistake has Rosie made?



9 Explain how each image shows 16 ÷ 1



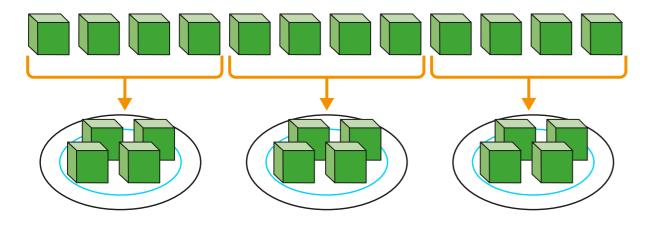




# Divide by 3







Complete	the	sentences.

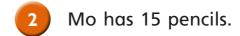
There are 12 cubes.

There are plates.

Each plate has cubes.

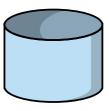
12 divided into equal groups is

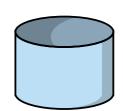




He shares them equally into 3 pots.



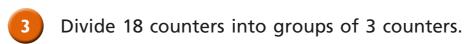






How many pencils will there be in each pot?

There will be pencils in each pot.

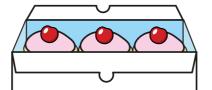


Draw a picture to show what this would look like.



How many groups did you draw?

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.

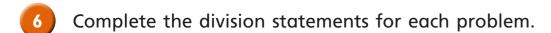


boxes of 3 cakes can be filled.





Is there more than one way to do this?





She puts them into 3 party bags.

How many balloons are in each party bag?



In each box there are 3 apples.

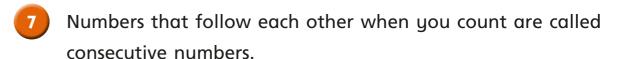
How many boxes are there?



### c) 24 children stand in groups of 3

How many groups are there?

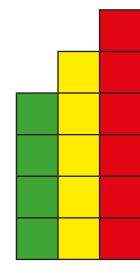






Three consecutive numbers can form a staircase.

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.

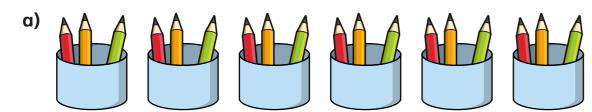




# Multiply by 3



Complete the sentences.

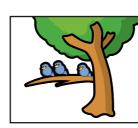


There are equal groups of

b)









There are equal groups of

c)



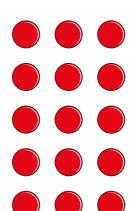
There are equal groups of

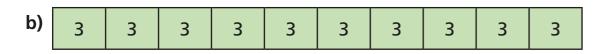
Could you write the number sentences in a different way?



Write two multiplication sentences for each part of the question.

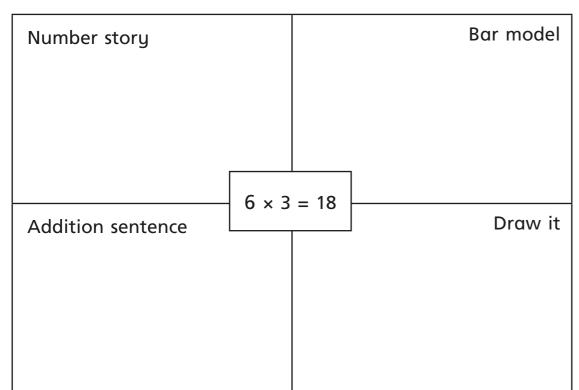
a)



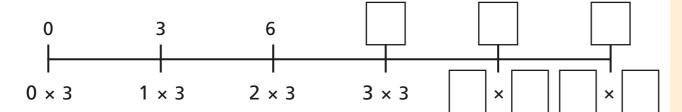




3 Complete the diagram.



Complete the number line.



5

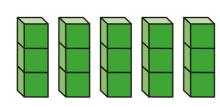


6 lots of 3 is 6 more than 5 lots of 3

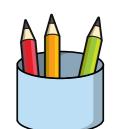
Do you agree with Dora	?
Explain why.	

6 Which is the odd one out?

Tick your answer.

















axE	lain	uour	answer.

Is there more than one answer?

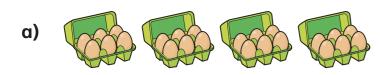




# Multiply and divide by 6



Complete the sentences.



There are boxes.

There are eggs in each box.

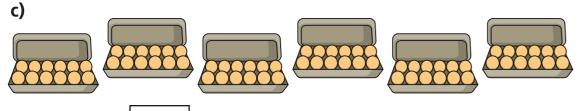
There are eggs altogether.



There are spiders.

There are legs on each spider.

There are legs altogether.

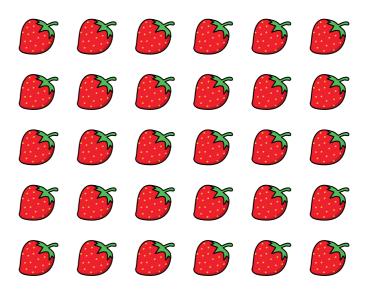


There are boxes.

There are eggs in each box.

There are eggs altogether.



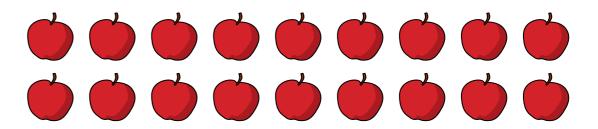


She shares them equally between 6 bowls.

- **a)** Draw on the picture to show how Rosie shares the strawberries.
- b) How many strawberries does Rosie put in each bowl?

Rosie puts	strawberries	in	each	bowl

3 These apples are being put into bags of 6

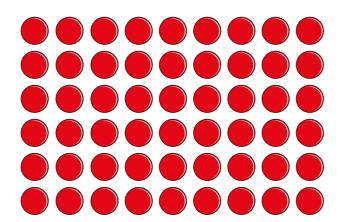


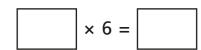
How many bags are needed?





Complete the number sentences to describe the array.





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	cm long
The genow habour is	

There are 66 children sitting in rows.

There are 6 children in each row.

How many rows are there?

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.

I can share my counters into 6 equal groups.



Do you agree with Teddy? \_\_\_\_\_

Why?







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

a)



















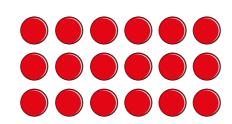












Complete the facts represented by the array.

Fill in the gaps.

#### 3 times-table

6 times-table

$$1 \times 3 = 3$$

$$2 \times 3 = 6$$

$$2 \times 6 = 12$$

$$3 \times 3 = 9$$

$$4 \times 6 = 24$$

$$6 \times 3 = 18$$

What patterns can you see?

Talk about it with a partner.

Complete the number tracks.

30 36 60 66

36   30   24
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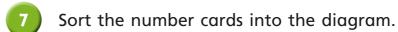
- Complete the calculations.
  - a) 3 × 6 =
- g) 6 × 6 =
- **b)** 2 × = 12
- **h)** ÷ 6 = 7

c) 6 × 4 =

- i) 6 × = 48
- j) ÷ 6 = 11
- e) 11 × 6 =
- **k)** 10 × 6 =
- **f)**  $\times$  6 = 30
- x 3 = 30
- 6 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.



18
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15

36

16

20

6

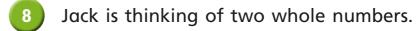
72

63

	Multiples of 6	Not multiples of 6
Even numbers		
Odd numbers		

Are any of the boxes empty?

Compare answers with a partner.



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

