

Year 2 Maths: Two Times-Tables

Monday 08.02.21

Today we will
be learning
about the 2 x
table.



Daily Fluency and Recall Tasks

$$43 + 29 =$$

$$75 - 58 =$$

Draw arrays for: 3×2 and $9 \times 5 =$

Sally had 34 flowers. She gave 18 to her mum. How many did she have left?

Why not try Hit the button at <https://www.topmarks.co.uk/maths-game/hit-the-button>

You could practise your number bonds, and doubles as well.

Try to learn your:

2 times table

5 times table

10 times table


3 x table

It's really important that you practise your times tables every day as they will help you with lots of the maths you will meet in KS2.

Vocabulary

Multiplication Year 2

Lots Of...

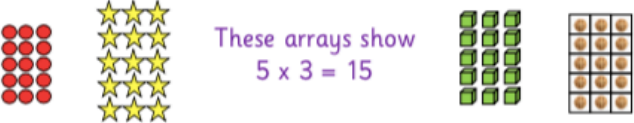


There are 5 lots of 3s.
This helps us write a our multiplication sentence.
5 lots of 3 is the same as 5×3

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Multiplication Year 2

Arrays



These arrays show
 $5 \times 3 = 15$

Arrays are objects or shapes in rows and columns.
They help us to multiply.

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Multiplication Year 2

Commutative Law

When you multiply numbers, you will get the same answer when you swap them around.


$$5 \times 3 = 15$$
$$3 \times 5 = 15$$

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Multiplication Year 2

Two Times Tables

Repeated addition in groups of 2s.
We should learn our 2 times tables up to 12×2 .



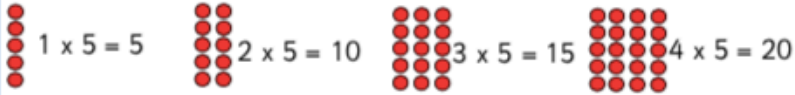
$1 \times 2 = 2$ $2 \times 2 = 4$ $3 \times 2 = 6$ $4 \times 2 = 8$

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Multiplication Year 2

Five Times Tables

Repeated addition in groups of 5s.
We should learn our 5 times tables up to 12×5 .



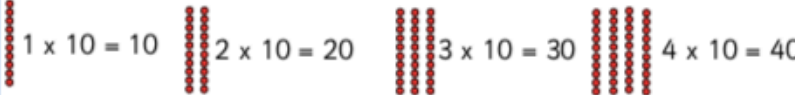
$1 \times 5 = 5$ $2 \times 5 = 10$ $3 \times 5 = 15$ $4 \times 5 = 20$

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Multiplication Year 2

Ten Times Tables

Repeated addition in groups of 10s.
We should learn our 10 times tables up to 12×10 .



$1 \times 10 = 10$ $2 \times 10 = 20$ $3 \times 10 = 30$ $4 \times 10 = 40$

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Recap

X

This is the multiplication symbol. It means:

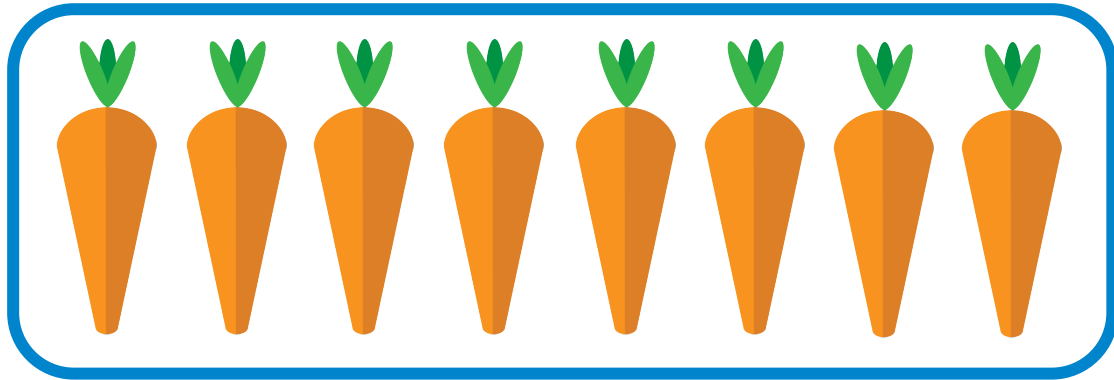
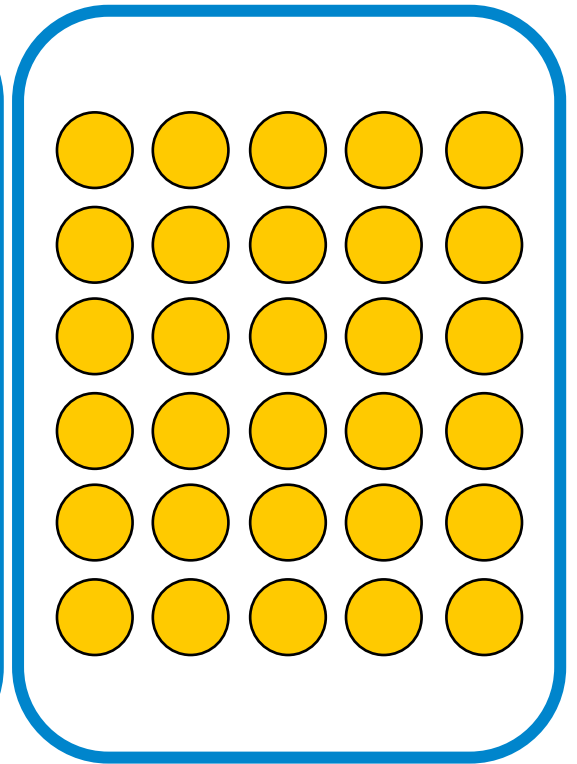
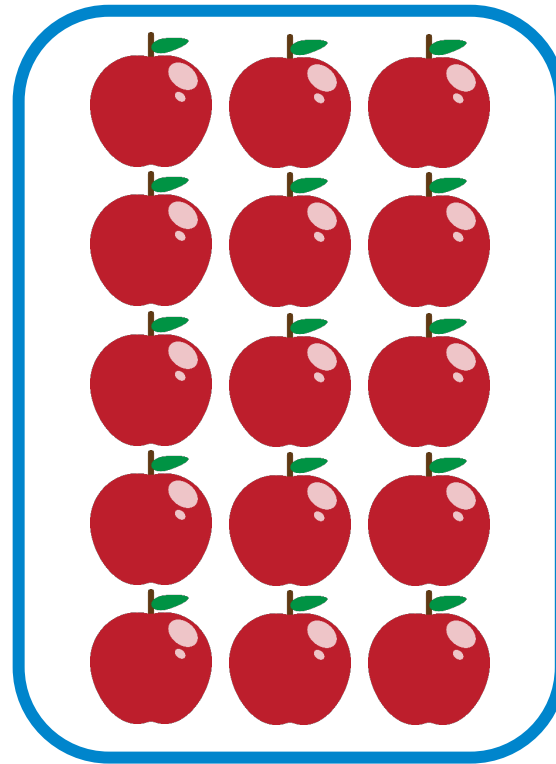
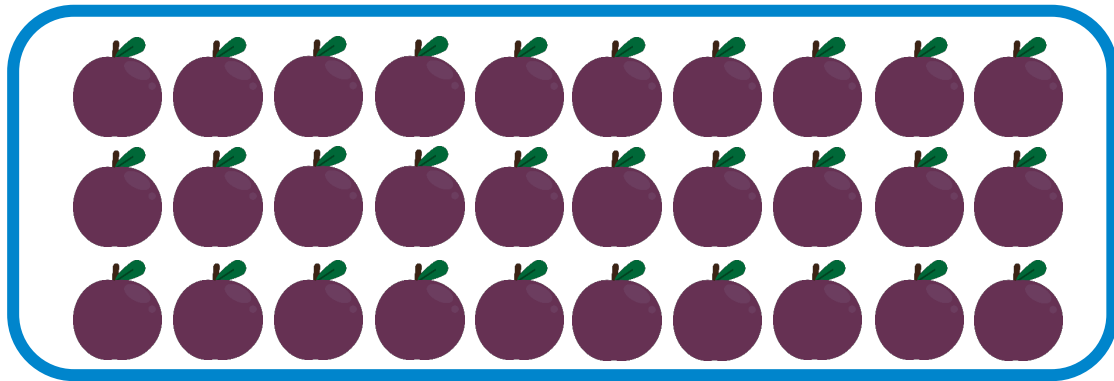
Lots of
Groups of
Multiplies by
Times

All these are ways of saying the same thing.



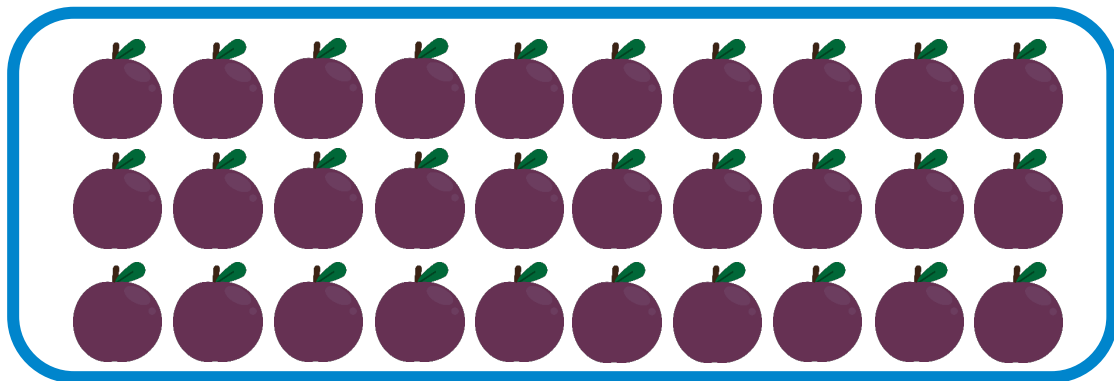
Recap

Write down two multiplications for each array.

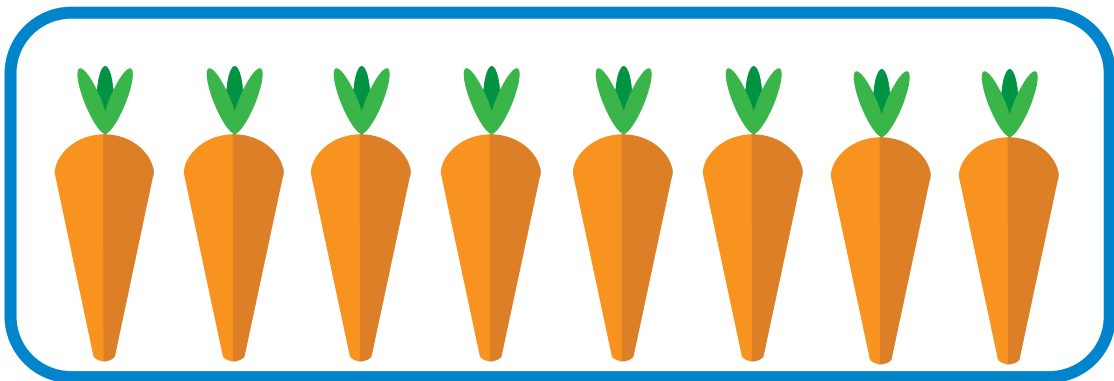


Recap

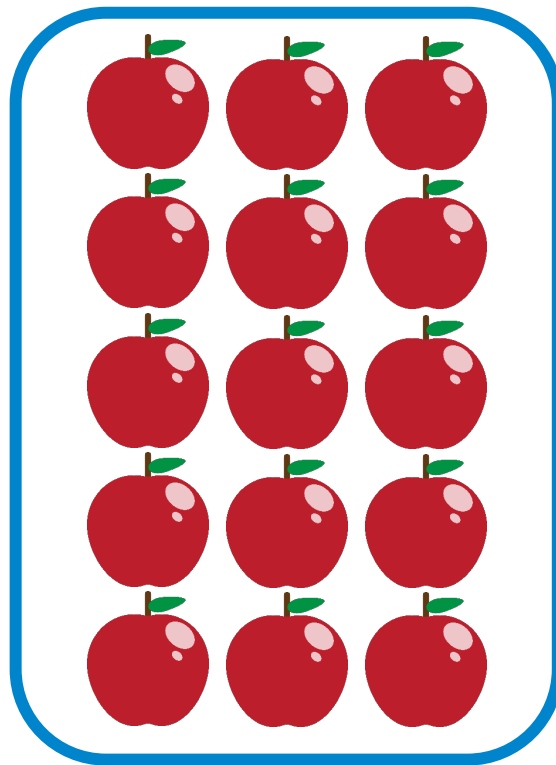
Write down two multiplications for each array.



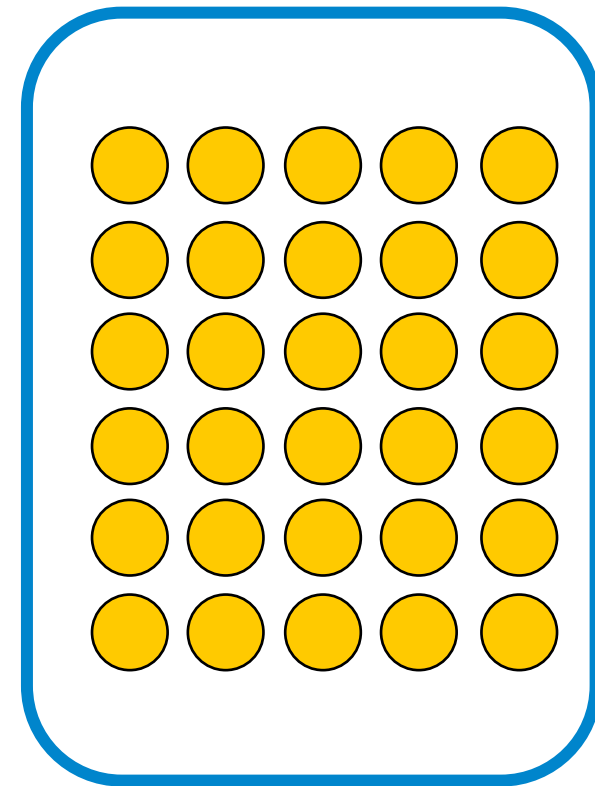
3×10 10×3



1×8 8×1



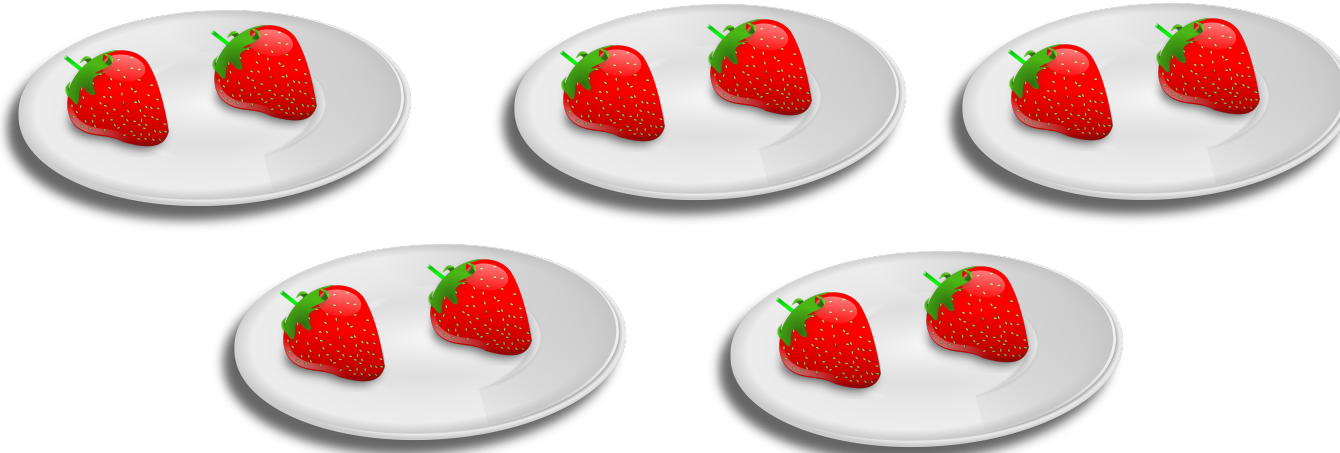
5×3 3×5



6×5 5×6

Recap

How many strawberries? Can you write this as a multiplication?



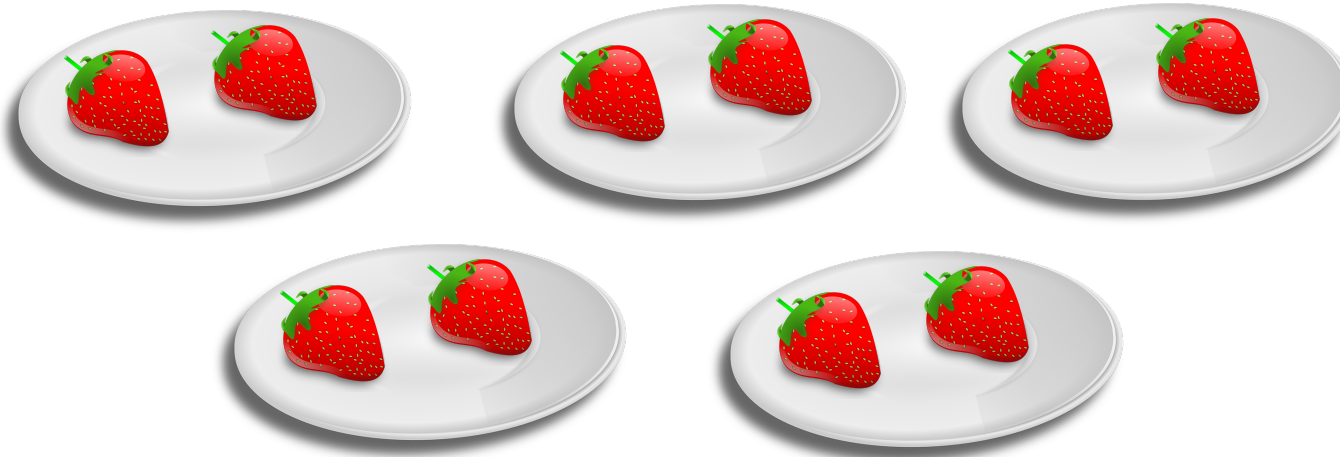
_____ lots of _____

or

_____ x _____ = _____

Recap

How many strawberries? Can you write this as a multiplication?



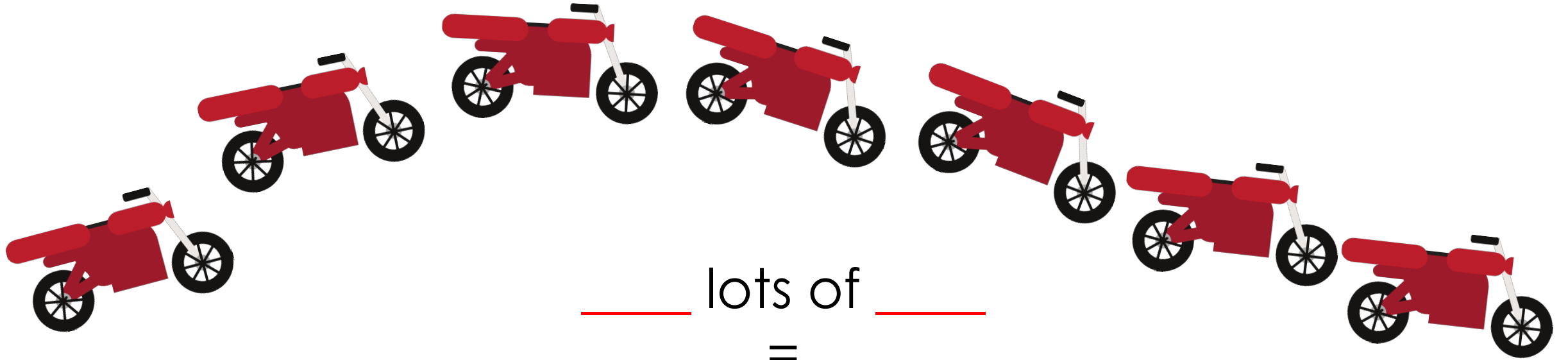
5 lots of 2

or

$$5 \times 2 = 10$$

Recap

Let's count in 2s to calculate the total wheels.

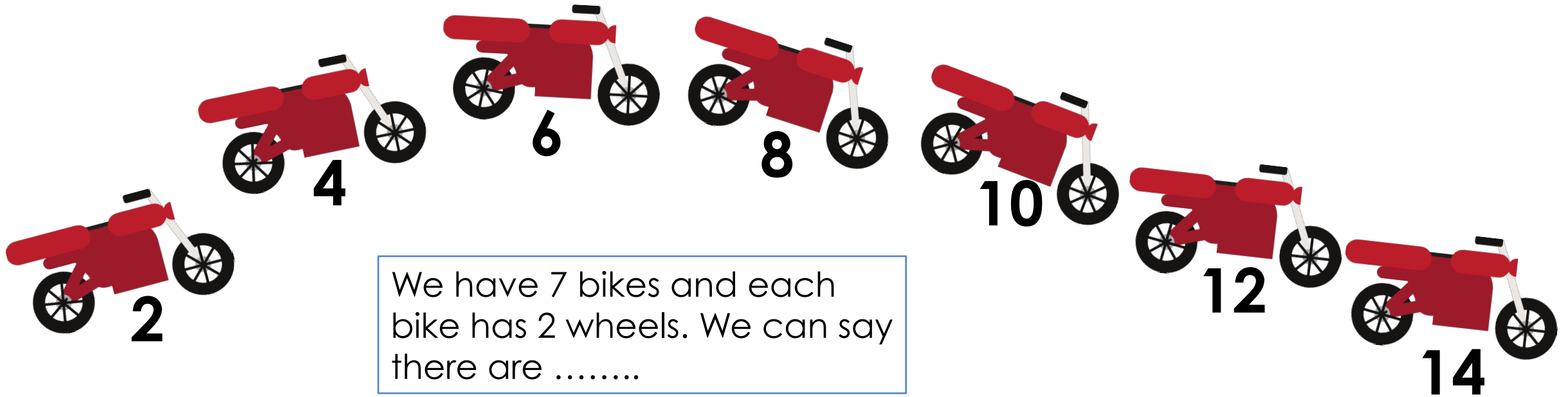


_____ lots of _____
=

_____ x _____ = _____

Explore

Counting in 2s helps us work out our 2 times table.



7 lots of 2

This is the same as

$$7 \times 2 = 14$$

Explore

Count the 2ps to find out how much money in total. Count in 2s.
How many twos do you have?



_____ lots of _____ =

 X

Explore

There are 9 2ps



2

4

6

8

10

12

14

16

18

9 lots of 2 = 18

$$9 \times 2 = 18$$

Explore

Let's look at what happens when we count in 2s.
Look at this chart. What do you notice. Talk to your grown up.

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24



Explore

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

When counting in 2s we skip one number.
All the numbers are even.

Explore

Count in 2s to complete these number tracks.



Review

Did you complete the number tracks correctly?

0	2	4	6	8	10
---	---	---	---	---	----

8	10	12	14	16	18
---	----	----	----	----	----

14	16	18	20	22	24
----	----	----	----	----	----

Guided Practice

You can use your fingers to count in 2s. Each finger is worth 2.



2



4



6



8

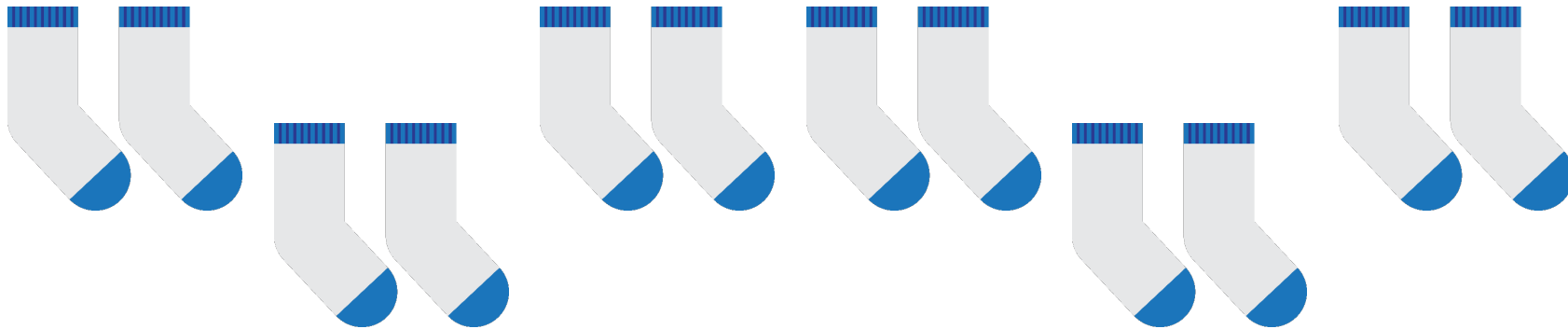


10

Guided Practice

If there are 6 pairs of socks, how many socks are there?

Remember a pair = 2!



_____ lots of _____

=

_____ x _____ = _____

Guided Practice

If there are 6 pairs of socks, how many socks are there?

Remember a pair = 2!



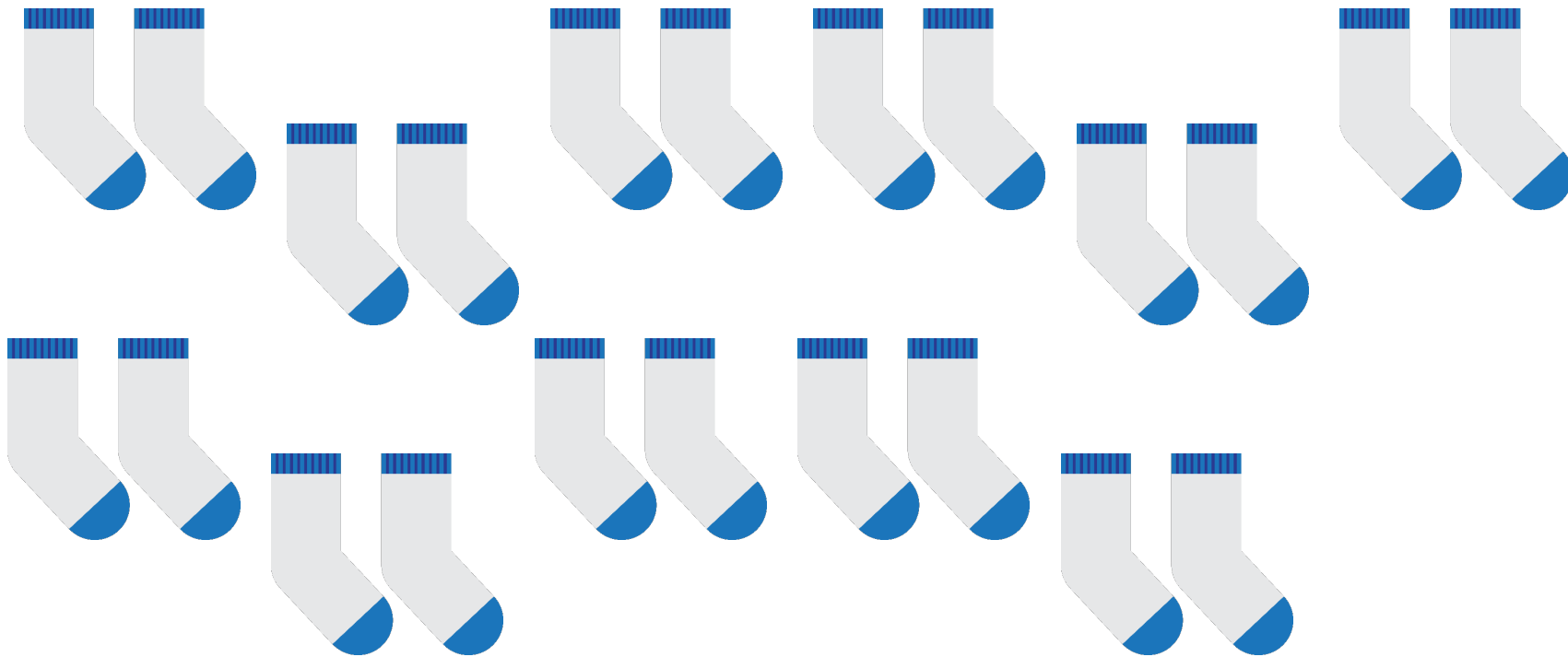
6 lots of 2

=

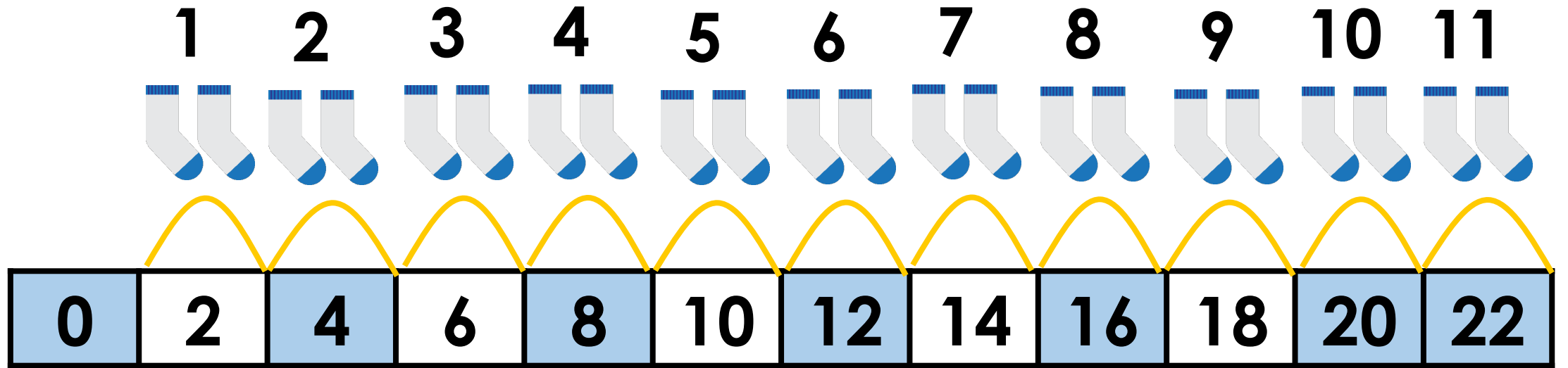
6 x 2 = 12

Guided Practice

If there are 22 socks, how many pairs are there?



Guided Practice



11 pairs of socks

$$22 = 11 \times 2$$

Guided Practice

If you can count in twos you can also say your 2 x table!. Each of your fingers is worth 2. How many fingers are you holding up? Each find is a 'group' or a 'lot'. One group of 2 is 2 becomes $1 \times 2 = 2$. Talk to your grown up and practise saying your two times tables up to 12×2 using your fingers. Watch today's lesson video to find out more.



1 x 2 is

2



2 x 2 is

4



3 x 2 is

6



4 x 2 is

8



5 x 2 is

10

Guided Practice

Let's say the 2 x table

$1 \times 2 =$

$2 \times 2 =$

$3 \times 2 =$

$4 \times 2 =$

$5 \times 2 =$

$6 \times 2 =$

$7 \times 2 =$

$8 \times 2 =$

$9 \times 2 =$

$10 \times 2 =$

$11 \times 2 =$

$12 \times 2 =$

Guided Practice

Let's say the 2 x table

$1 \times 2 = 2$

$2 \times 2 = 4$

$3 \times 2 = 6$

$4 \times 2 = 8$

$5 \times 2 = 10$

$6 \times 2 = 12$

$7 \times 2 = 14$

$8 \times 2 = 16$

$9 \times 2 = 18$

$10 \times 2 = 20$

$11 \times 2 = 22$

$12 \times 2 = 24$

Guided Practice: Problem Solving

Mrs. Riley has 2p coins in her money box.
She has less than 7 coins.
How much money could she have?



Guided Practice: Problem Solving

Mrs. Riley has 2p coins in her money box.

She has less than 7 coins.

How much money could she have?

$$1 \times 2p = 2p$$

$$2 \times 2p = 4p$$

$$3 \times 2p = 6p$$

$$4 \times 2p = 8p$$

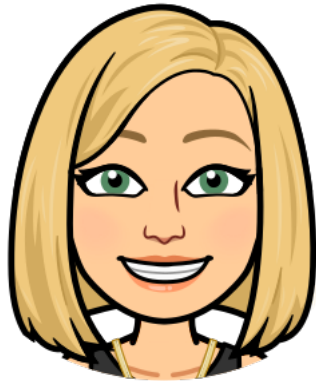
$$5 \times 2p = 10p$$

$$6 \times 2p = 12p$$



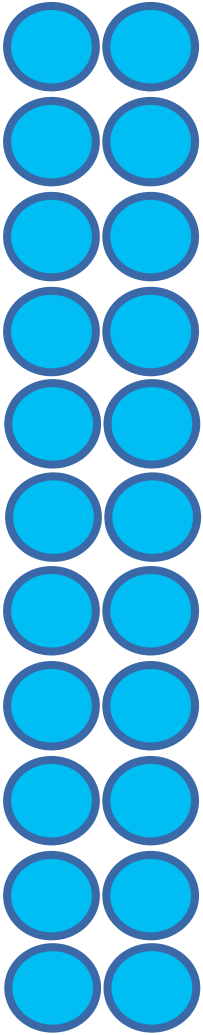
Guided Practice: Problem Solving

True or false?
Can you prove it?

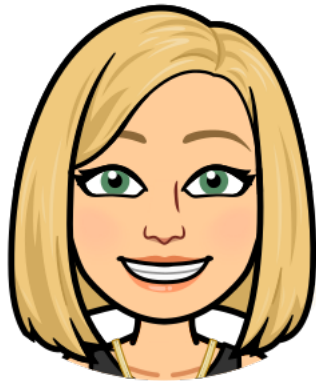


$$11 \times 2 = 24$$

Guided Practice: Problem Solving



True or false?
Can you prove it?



$$11 \times 2 = 24$$

False. $11 \times 2 = 22$

Guided Practice: Problem Solving

Use the digit cards to complete the calculation.
Find as many possibilities as you can.

$$\square \times 2 = \square \square$$

6 2 1 4 8

Guided Practice: Problem Solving

Use the digit cards to complete the calculation.
Find as many possibilities as you can.

$$\square \times 2 = \square \square$$

6 **2** **1** **4** **8**

$$6 \times 2 = 12$$

$$2 \times 2 = 4$$

$$1 \times 2 = 2$$

$$8 \times 2 = 16$$

$$4 \times 2 = 8$$

Independent Tasks

Colour the 2x tables.

25	19	3	7	20
8	22	10	21	5
2	23	6	14	24
13	15	18	1	17
12	4	16	9	11

Complete:

a $12 \times 2 = \underline{\hspace{2cm}}$

b $2 \times 2 = \underline{\hspace{2cm}}$

c $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = 14$

d $5 \times 2 = \underline{\hspace{2cm}}$

e $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = 6$

f $8 \times 2 = \underline{\hspace{2cm}}$

g $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = 18$

h $10 \times 2 = \underline{\hspace{2cm}}$

i $4 \times 2 = \underline{\hspace{2cm}}$


j $6 \times 2 = \underline{\hspace{2cm}}$

k $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = 2$

l $11 \times 2 = \underline{\hspace{2cm}}$

How many cherries are there in total?

a  $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

b  $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

c  $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

d  $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

e  $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

f  $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

Independent Tasks

1 Complete the number tracks.

a

2	4		8		12
---	---	--	---	--	----

b

		16		20	22
--	--	----	--	----	----

c

6		10		14	
---	--	----	--	----	--

d

	16			22	24
--	----	--	--	----	----

e

10		14			
----	--	----	--	--	--

2 Fill the blanks.

a) $4 \times \underline{\quad} = 8$

b) $\underline{\quad} \times 2 = 20$

c) $8 \times 2 = \underline{\quad}$

d) $\underline{\quad} \times 2 = 10$

3 Jack says that $10 \times 2 = 22$.

Is Jack correct?

Explain how you know. You may use equipment or pictures to help you.

4 Complete the missing boxes.

$4 \times 2 = \square$

$\square = 1 \times 2$

$\square \times 2 = 4$

$\square = 8 \times 2$

$0 \times 2 = \square$

$\square \times 2 = 6$

$\square \times 2 = 18$

$\square = 7 \times 2$

$12 \times 2 = \square$

$\square \times 2 = 20$

$\square \times 2 = 10$

$6 \times 2 = \square$

Which times-table fact is missing?

$\square \times \square = \square$

5 Compare the multiplication facts using $<$, $>$ or $=$

$6 \times 2 \bigcirc 5 \times 2$

$5 \times 2 \bigcirc 2 \times 5$

$2 \times 0 \bigcirc 1 \times 2$

$2 + 2 \bigcirc 2 \times 2$

If your finding things a little tricky...


1 Count in 2s to calculate how many there are of each object.


a  There are _____ doughnuts in total.
 _____ x _____ = _____

b  There are _____ cupcakes in total.
 _____ x _____ = _____

c  There are _____ cookies in total.
 _____ x _____ = _____

d  There are _____ apples in total.
 _____ x _____ = _____

e  There are _____ acorns in total.
 _____ x _____ = _____

f  There are _____ cherries in total.
 _____ x _____ = _____

2 Describe the picture in the space provided including a number sentence.



1 Complete the number tracks.

a

2	4		8		12
---	---	--	---	--	----

b

		16	18	20	22
--	--	----	----	----	----

c

6		10	12	14	
---	--	----	----	----	--

d

	12	14		18	20
--	----	----	--	----	----

e

14		18	20	22	
----	--	----	----	----	--

2 How many apples are on 4 apple trees? _____



- a) If there were 12 apples, how many apple trees are there? _____
- b) If there were 2 apples, how many apple trees are there? _____
- c) If there were 20 apples, how many apple trees are there? _____

3 True or false?



There are 4 straws in total.

Explain how you know.

Varied Fluency 1

Use the pictures to complete the calculations.



$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$



$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

Reasoning 1

True or false?
Can you prove it?

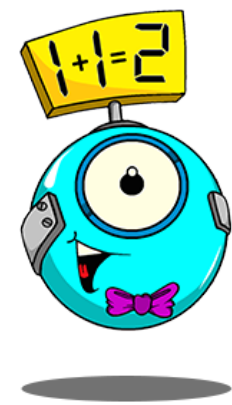
$$10 \times 2 = 22$$



Problem Solving 1

Use the digit cards to complete the calculation.

$$\square \times 2 = \square \square$$



Varied Fluency 2

Draw pictures or arrays to help you solve these calculations.

$$7 \times 2 =$$

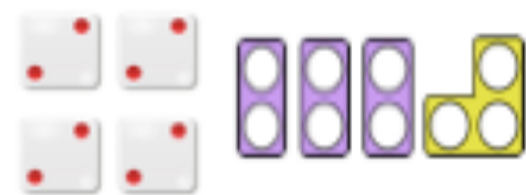
$$11 \times 2 =$$

$$2 \times 9 =$$

Reasoning 2

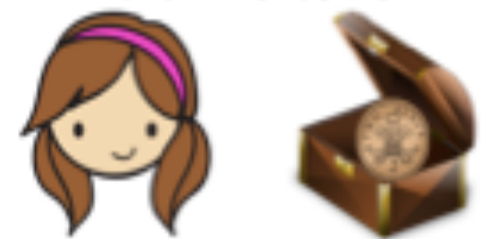
Which is the odd one out?

$$4 \times 2 =$$



Problem Solving 2

Amy has 2p coins in his money box. She has less than 13 coins.



How much money could she have?

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

Kat says,



Every number in the two times table is even.

Is Kat correct?

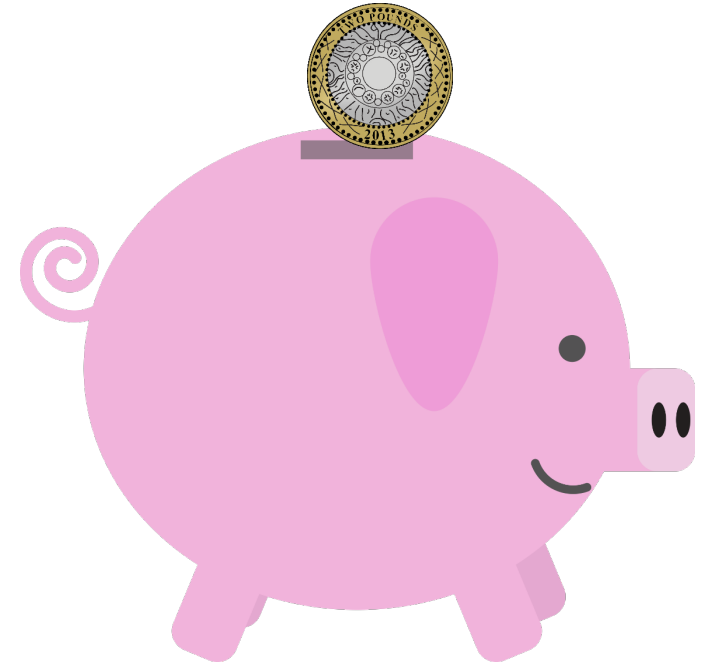
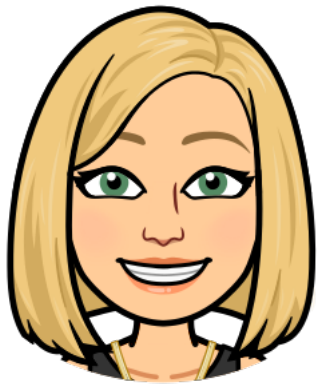
Explain your answer.

Exit task – Dong Nao Jin

Mrs Riley already has £10 in her piggy bank.

Each day she adds £2 more.

How much will
I have after
1 week?





Answers

$$43 + 29 = 72$$

$$75 - 58 = 17$$

Draw arrays for: 3×2 and $9 \times 5 =$

Sally had 34 flowers. She gave 18 to her mum. How many did she have left? $34 - 18 = 16$

4 Complete the missing boxes.

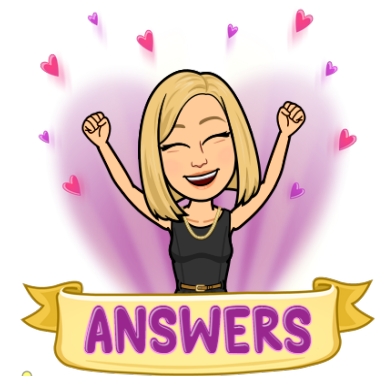
$4 \times 2 = 8$	$9 \times 2 = 18$
$2 = 1 \times 2$	$14 = 7 \times 2$
$2 \times 2 = 4$	$12 \times 2 = 24$
$16 = 8 \times 2$	$10 \times 2 = 20$
$0 \times 2 = 0$	$5 \times 2 = 10$
$3 \times 2 = 6$	$6 \times 2 = 12$

Which times-table fact is missing?

$$11 \times 2 = 22$$

5 Compare the multiplication facts using $<$, $>$ or $=$

6×2	$>$	5×2
5×2	$=$	2×5
2×0	$<$	1×2
$2 + 2$	$=$	2×2



Colour the 2x tables.

25	19	3	7	20
8	22	10	21	5
2	23	6	14	24
13	15	18	1	17
12	4	16	9	11

How many cherries are there in total?

a  $3 \times 2 = 6$

b  $1 \times 2 = 2$

c  $6 \times 2 = 12$

Complete:

a $12 \times 2 = \underline{24}$

b $2 \times 2 = \underline{4}$

c $\underline{7} \times \underline{2} = 14$

d $5 \times 2 = \underline{10}$

e $\underline{3} \times \underline{2} = 6$

f $8 \times 2 = \underline{16}$

g $\underline{9} \times \underline{2} = 18$

h $10 \times 2 = \underline{20}$

i $4 \times 2 = \underline{8}$

j $6 \times 2 = \underline{12}$

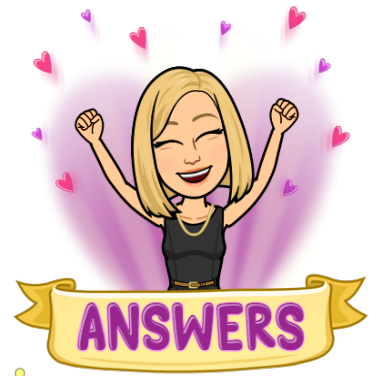
k $\underline{1} \times \underline{2} = 2$

l $11 \times 2 = \underline{22}$

d  $5 \times 2 = 10$

e  $4 \times 2 = 8$

f  $2 \times 2 = 4$



1 Complete the number tracks.

a	2	4	6	8	10	12
b	12	14	16	18	20	22
c	6	8	10	12	14	16
d	14	16	18	20	22	24
e	10	12	14	16	18	20

2 Fill the blanks.

- a) $4 \times \underline{2} = 8$
 b) $\underline{10} \times 2 = 20$
 c) $8 \times 2 = \underline{16}$
 d) $\underline{5} \times 2 = 10$

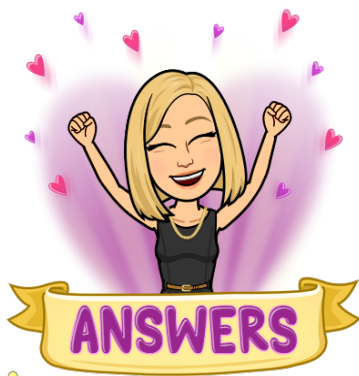
3 Jack says that $10 \times 2 = 22$.

Is Jack correct?


Explain how you know. You may use equipment or pictures to help you.


No, Jack is not correct. $10 \times 2 = 20$.


(Children may draw arrays, groups or use equipment to help them).





1 Count in 2s to calculate how many there are of each object.


a  There are 4 cherries in total.
 $\underline{2} \times \underline{2} = \underline{4}$


b  There are 8 apples in total.
 $\underline{4} \times \underline{2} = \underline{8}$


c  There are 12 cookies in total.
 $\underline{6} \times \underline{2} = \underline{12}$

d  There are 2 slices of bread in total.
 $\underline{1} \times \underline{2} = \underline{2}$

e  There are 10 straws in total.
 $\underline{5} \times \underline{2} = \underline{10}$

f  There are 6 doughnuts in total.
 $\underline{3} \times \underline{2} = \underline{6}$

g  There are 14 acorns in total.
 $\underline{7} \times \underline{2} = \underline{14}$

h  There are 20 cupcakes in total.
 $\underline{10} \times \underline{2} = \underline{20}$

1 Complete the number tracks.

a	2	4	6	8	10	12
b	12	14	16	18	20	22
c	6	8	10	12	14	16
d	10	12	14	16	18	20
e	14	16	18	20	22	24

2 How many apples are on 4 apple trees? 8



- a) If there were 12 apples, how many apple trees are there? 6
 b) If there were 2 apples, how many apple trees are there? 1
 c) If there were 20 apples, how many apple trees are there? 10

3 True or false?




There are 4 straws in total.


Explain how you know.

False. There are 8 straws in total as there are 2 straws in each glass. There are 4 glasses. $4 \times 2 = 8$.

Varied Fluency 1
Use the pictures to complete the calculations.




$5 \times 2 = 10$



$4 \times 2 = 8$

Reasoning 1 True or false?
Can you prove it?

$10 \times 2 = 22$



False.
 $10 \times 2 = 20$

Problem Solving 1
Use the digit cards to complete the calculation.

$\square \times 2 = \square \square$

2 6 5 0 1

Various answers e.g.
 $5 \times 2 = 10$
 $6 \times 2 = 12$

Kat says,



Every number in the two times table is even.

Is Kat correct?

Explain your answer.

Yes, Kat is correct because 2 is an even number and the 2 times table is going up in 2s. When you add two even numbers the answer is always even.

Varied Fluency 2
Draw pictures or arrays to help you solve these calculations.





$7 \times 2 = 14$

$11 \times 2 = 22$



$2 \times 9 = 18$

Reasoning 2
Which is the odd one out?

$4 \times 2 =$

Problem Solving 2
Amy has 2p coins in his money box. She has less than 13 coins.

Various answers e.g.
 $1 \times 2 = 2p$ **$2 \times 2 = 4p$**
 $3 \times 2 = 6p$ **$4 \times 2 = 8p$**

