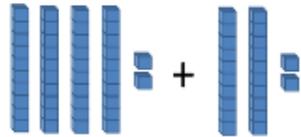
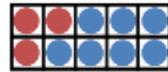


Y2 Morning Maths

A. $42 + 22 =$



B. $3 + 7 =$



C. $40 - ? = 20$

Use...



Base 10

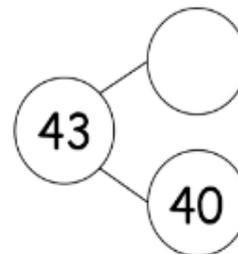
...to help you

6, 8, 10, 12,

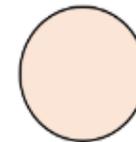
Use $<$, $>$ or $=$ to compare the candles.



What is the missing part?

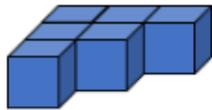


What is the mathematical name for this shape?



Y6 Morning Maths

- 1) How many cubes make up this shape?

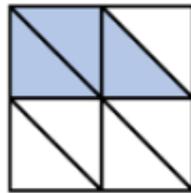


cubes

- 2) How many grams are in $\frac{1}{2}$ a kilogram?

- 3) What is 9 subtract 15?

- 4) What fraction is shaded?



5) $294 + 70$

6) $4697 + 2534$

7) 3×8

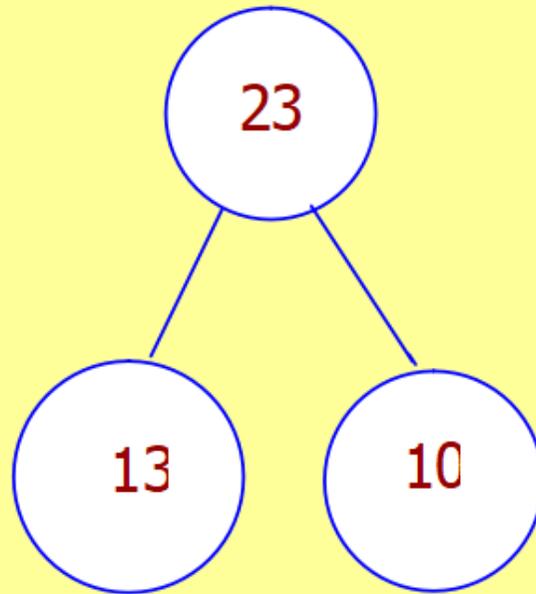
8) 564×8

9) 80×5

10) 34×6

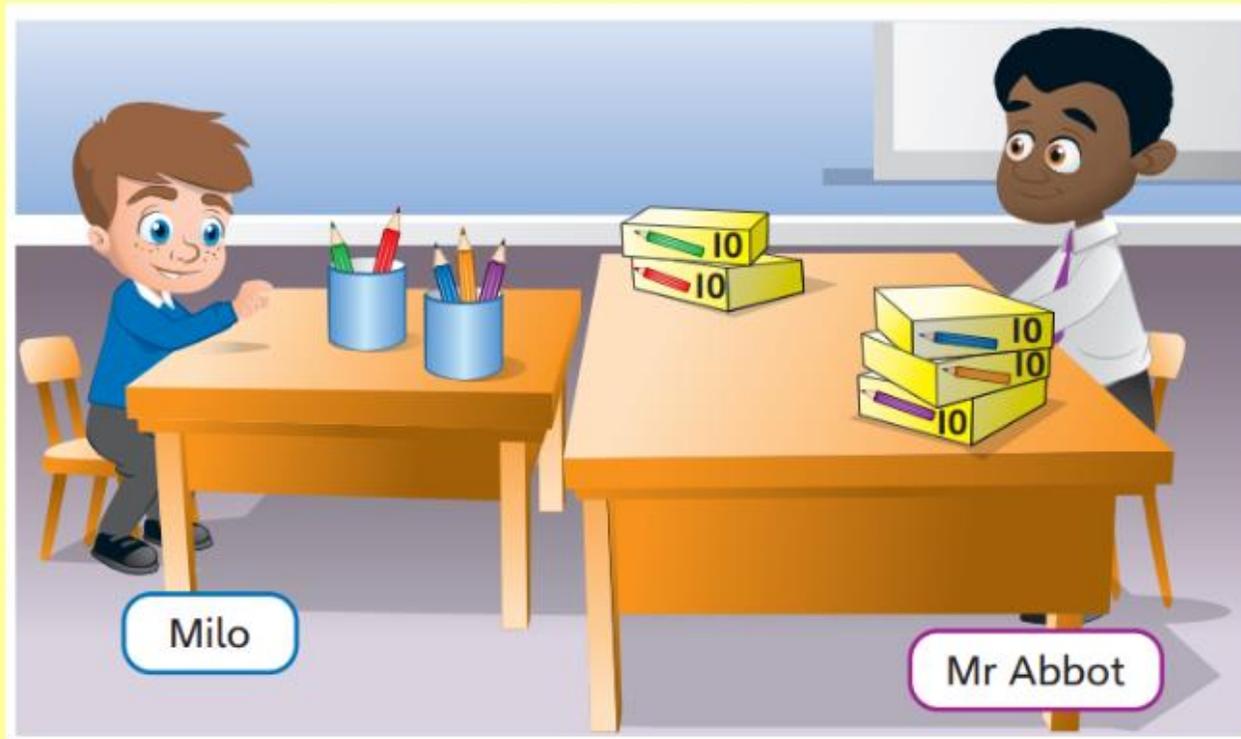
Starter

What is the fact-family for this part whole model?



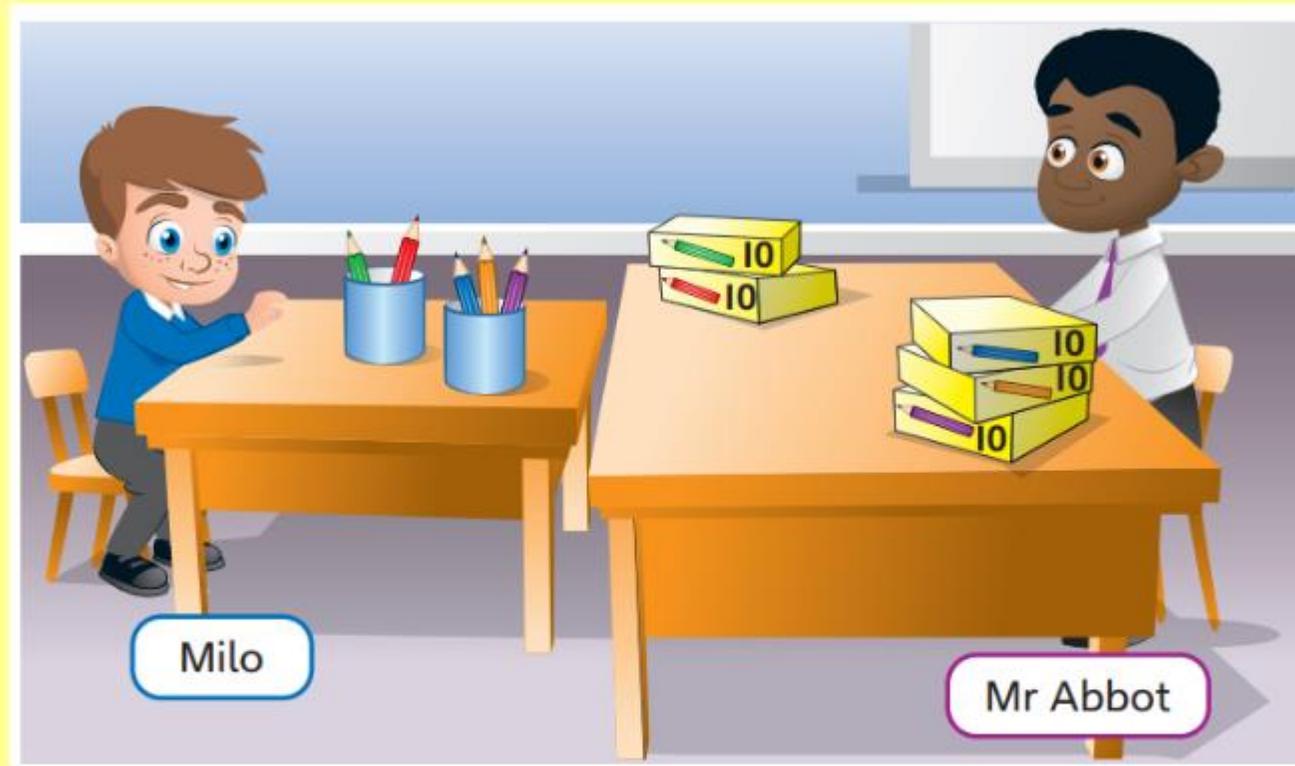
Resources: Base ten equipment

Discover



- a) How many pencils does Milo have?
- b) How many pencils does Mr Abbot have?

Journalling



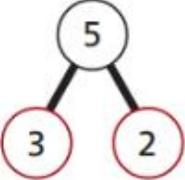
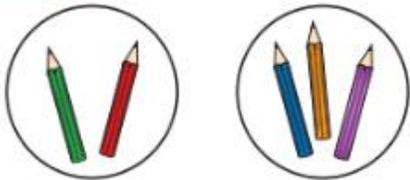
Show the amounts using Base Ten. Draw it in your book.

What is the same? What is different?

Share

Share

a)



 +  = 

2 ones + 3 ones = 5 ones

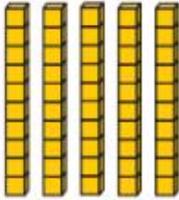
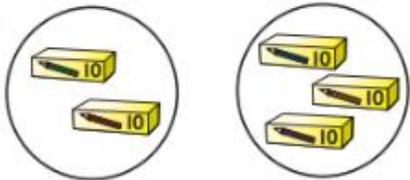
$2 + 3 = 5$

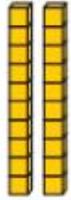
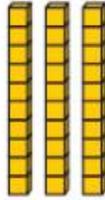
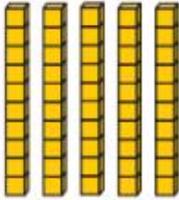
Milo has 5 pencils.

I wrote
 $5 = 2 + 3$.



b)



 +  = 

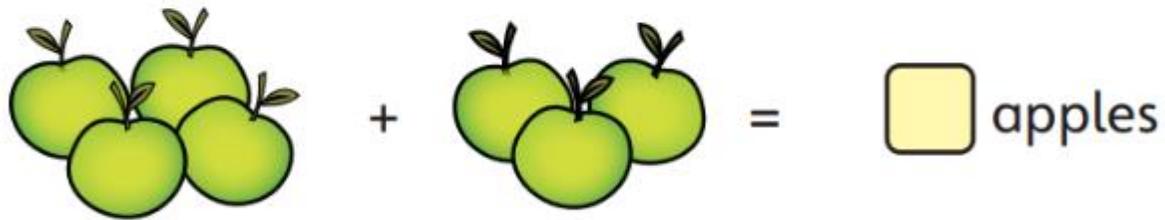
2 tens + 3 tens = 5 tens

$20 + 30 = 50$

Mr Abbot has 50 pencils.

Think together

a) Complete the following.



4 ones + 3 ones = ones

4 tens + 3 tens = tens

Think together

Complete the following.

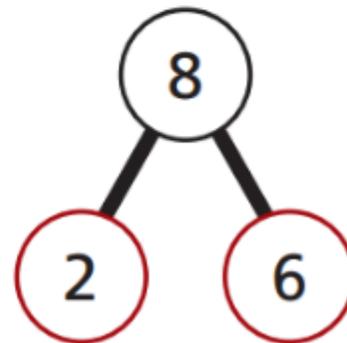
$$4 + 3 = \square$$

$$40 + 30 = \square$$

Use the part-whole model to complete the number sentences.

$$2 + 6 = \square$$

$$20 + 60 = \square$$



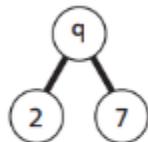
Your turn: Practise book Page 65

Date: _____

Unit 2: Addition and subtraction (1), Lesson 3

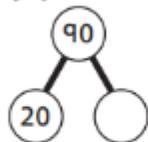
Add and subtract two multiples of 10

1 Complete the part-whole models and number sentences.



$$2 + \square = 9$$

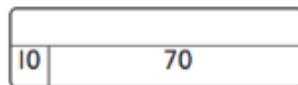
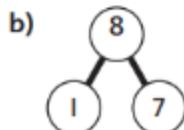
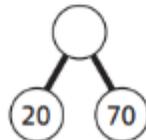
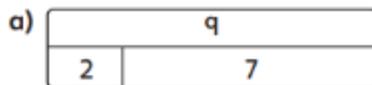
$$\square = 9 - 2$$



$$20 + \square = 90$$

$$\square = 90 - 20$$

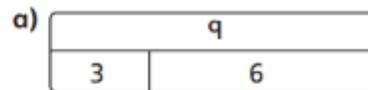
2 Find the missing numbers.



65

Unit 2: Addition and subtraction (1), Lesson 3

3 Use the diagrams to complete the number sentences.



$$3 + 6 = \square$$

$$30 + 60 = \square$$

$$9 - 3 = \square$$

$$90 - 30 = \square$$



$$\square = 4 + 5$$

$$50 + 40 = \square$$

$$90 - 50 = \square$$



$$40 + 10 = \square$$

$$50 - 40 = \square$$

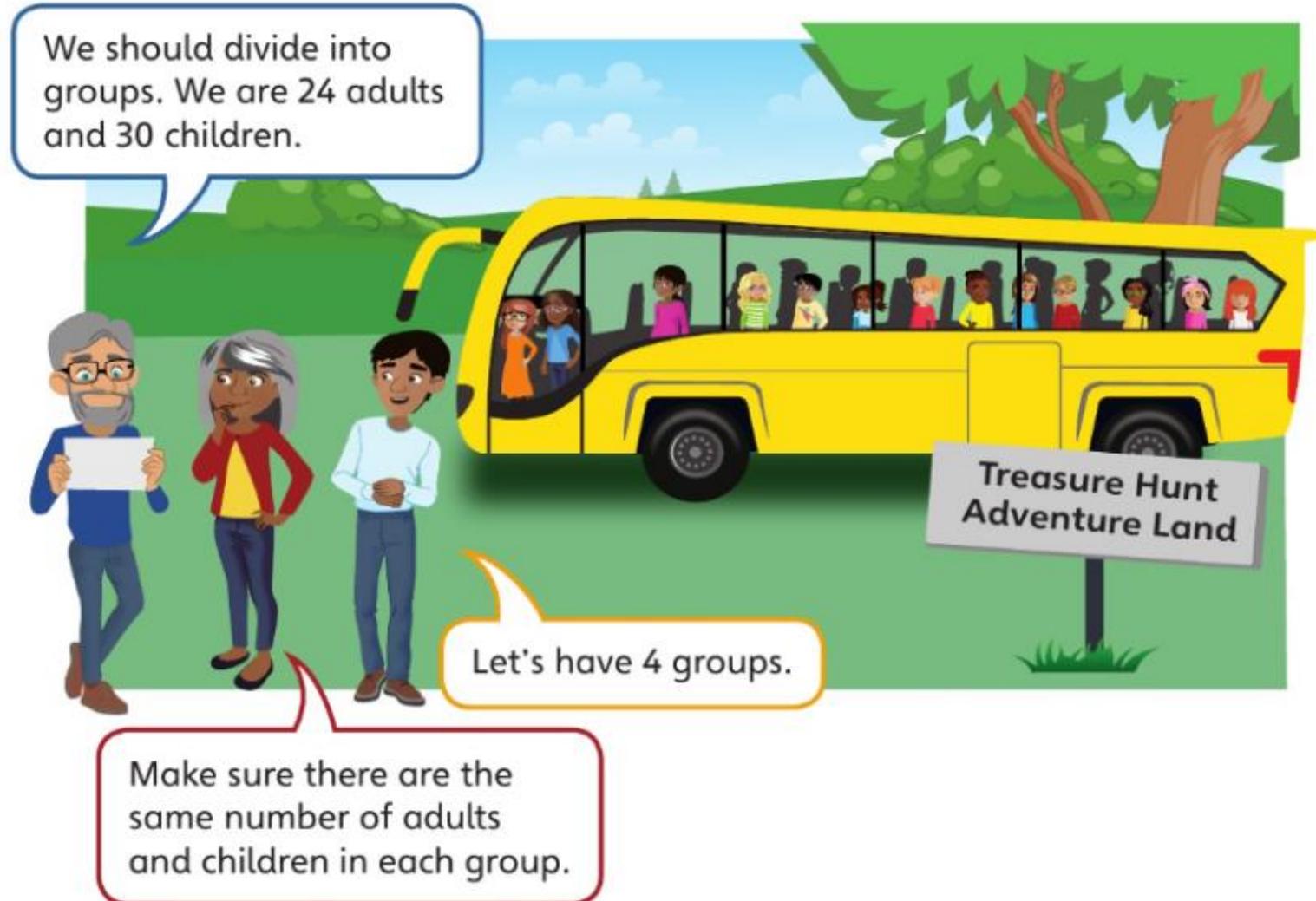
$$50 - \square = 40$$

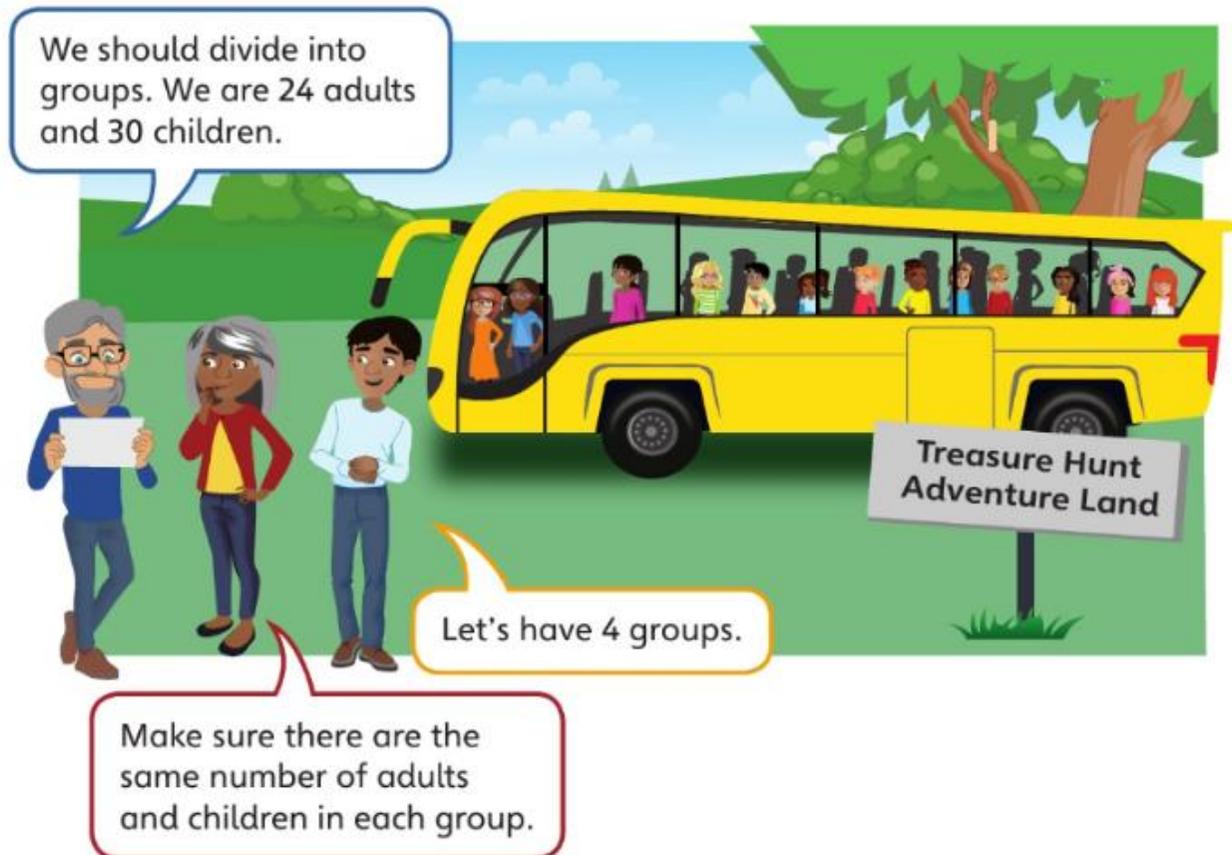
66

Warm-up

Factors of 84

What do you see?





- Show the adults can be split into 4 groups but the children cannot
- How could the adult and children be split into equal groups?

Journaling



Share

- a) The adults can divide equally into 4 groups, because 4 is a **factor** of 24.

The children cannot divide equally into 4 groups, because 4 is **not** a factor of 30.

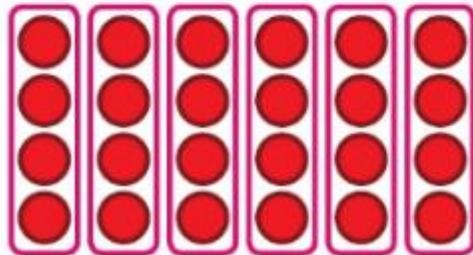
The adults and children cannot split equally into 4 groups.

A factor is a number that divides a number exactly.

4 is a factor of 24, because $24 \div 4 = 6$ with no remainder.

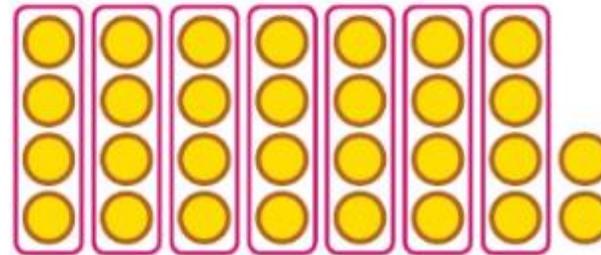


Adults



$$24 \div 4 = 6$$

Children



$$30 \div 4 = 7 \text{ remainder } 2$$

b) Find the factors of both 24 and 30.

$$1 \times 24 = 24$$

$$2 \times 12 = 24$$

$$3 \times 8 = 24$$

$$4 \times 6 = 24$$

$$1 \times 30 = 30$$

$$2 \times 15 = 30$$

$$3 \times 10 = 30$$

$$5 \times 6 = 30$$

Factors of 24 are 1, 2,
3, 4, 6, 8, 12 and 24.

Factors of 30 are 1, 2,
3, 5, 6, 10, 15 and 30.

1, 2, 3 and 6 are called common factors of 24 and 30.
They are in **both** lists.

The adults and children could split into 1, 2, 3 or 6
equal groups.

I can use multiplication facts to find the factors of a number. Then I will find the factors that are in both lists.



Think together

- 1 Complete the factor pairs of 12 and 15.

$$1 \times 12 = 12$$

$$\square \times \square = 12$$

$$\square \times \square = 12$$

Factors of 12 are

_____.

$$1 \times \square = 15$$

$$\square \times \square = 15$$

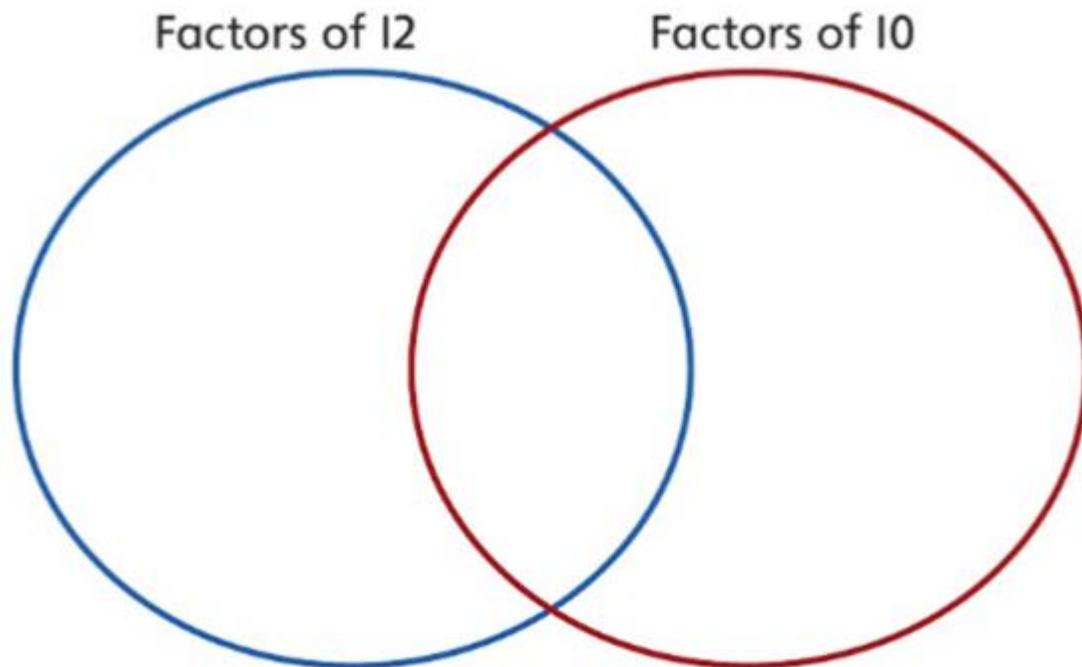
Factors of 15 are

_____.

The common factors of 12 and 15 are \square and \square .

Your turn

Write the numbers 1–12 in sorting circles like this.



In the sorting circles, where are the common factors of 10 and 12?



3 Bella wants to find the common factors of the three numbers 10, 15 and 20.

She uses this table to help.

Factors of 10	Factors of 15	Factors of 20

I wonder how Bella will know when she has checked all the numbers she needs to.



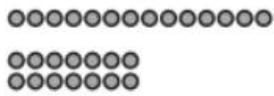
I know 2 will not be a factor of 15 because 15 is an odd number. I think that will help.



- a) Which numbers will appear in all three lists?
- b) Which numbers will appear in just two lists?
- c) Are there any numbers that will appear in just one list?

Common factors

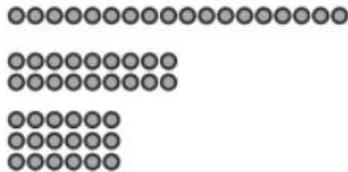
1 a) Use these arrays to find all the factors of 14 and 18.



$\square \times \square = 14$

$\square \times \square = 14$

The factors of 14 are \square , \square , \square and \square .



$\square \times \square = 18$

$\square \times \square = 18$

$\square \times \square = 18$

The factors of 18 are \square , \square , \square , \square , \square and \square .

b) List the common factors of 14 and 18.

2 a) Show that 5 is a factor of 30.

b) Show that 8 is not a factor of 30.

3 Complete these lists, then find the common factors of 40 and 100.

$1 \times \square = 40$

$1 \times \square = 100$

$\square \times \square = 40$

$\square \times \square = 40$

$\square \times \square = 40$

The common factors of 40 and 100 are _____.

4 a) Write down the factors of 20. _____

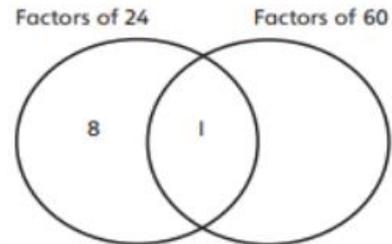
b) Write down the factors of 45. _____

c) Write down the common factors of 20 and 45.

5 Complete the sorting circles.



Then write down the common factors of 24 and 60.



- 6 a) Complete the table to show all the factors of 35, 50 and 70.



Factors of 35	Factors of 50	Factors of 70

Circle the common factors of all three numbers.

- b) Lexi thinks of three numbers that have the common factors 1, 2, 3, 4 and 5. What could Lexi's three numbers be?

Reflect

Find all the common factors of 15 and 60.

Do you need to check all the numbers up to 60?

- _____
- _____
- _____
- _____