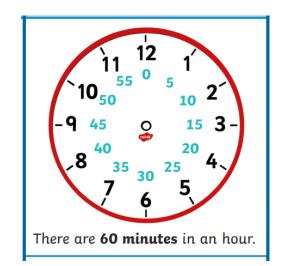
Time 'Learn by Heart' Facts

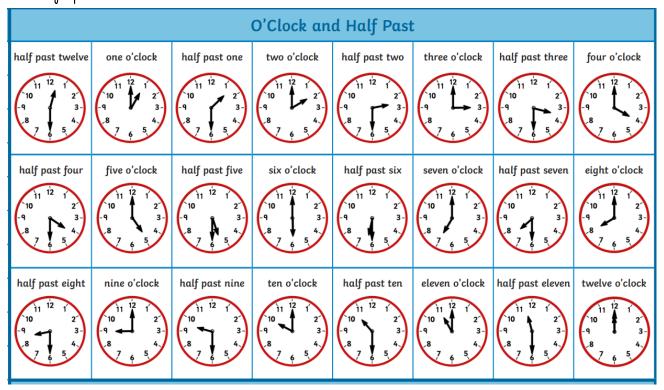
Children in Year 2 need to be able to tell the time to the hour and half past the hour. They also need to know the facts below:

- > 60 minutes = 1 hour
- > 30 minutes = half an hour
- > 7 days = I week

Children can convert 12 hour analogue times to digital e.g.:

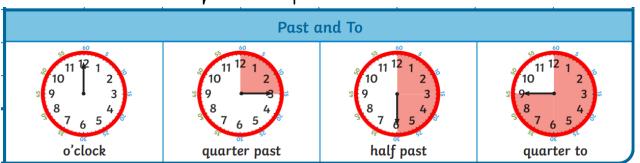
- > 12 o'clock = 12.00
- > | o'clock = 1.00
- > 2 o 'clock = 2.00
- > 3 o'clock = 3.00
- > 4 o'clock = 4.00
- > 5 o'clock = 5:00
- > 6 o'clock = 6:00
- > Half past 5 = 5:30
- > Half past 6 = 6:30
- > Half past 7 = 7:30
- > Half past 8 = 8.30
- Half past 9 = 9:30Half past 10 = 10.30





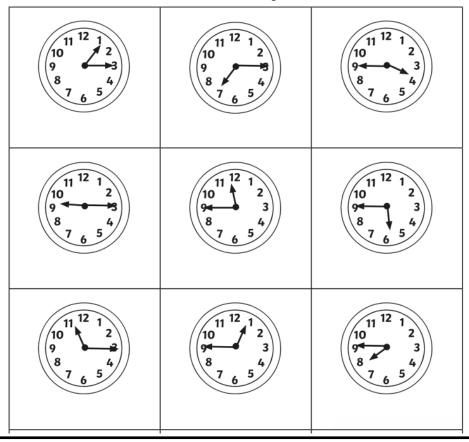
Time 'Learn by Heart' Facts

Try to support your child to understand how to tell the time using an analogue clock when the time is quarter to or quarter past the hour.

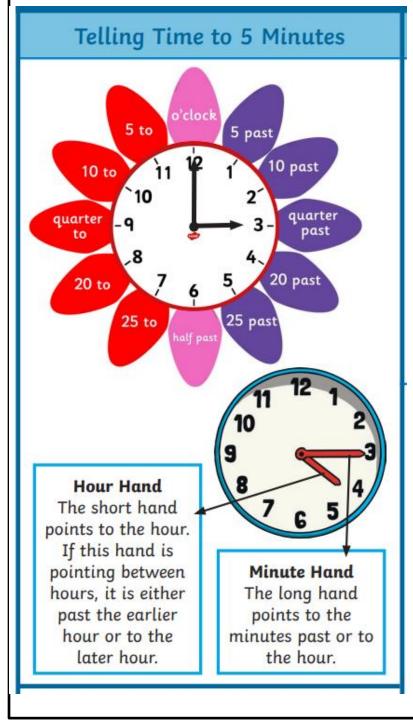


Draw clock faces and ask your child to tell you the time at these points of the day. Alternatively, support your child to learn the times on the clocks below.

Write down the time each clock is showing on the line underneath.



<u>Telling the Time to Five Minutes - Learn by Heart</u> Facts



Help your child to understand what each 'number' on the clock corresponds to (in relation to the five-minute intervals) when the MINUTE hand is pointing to it.

For example:

- 1-5 past.....
- 2 = 10 past.....
- 3 = Quarter past.....
- 4 = 20 past.....
- 5 = 25 past.....
- 6 = Half past.....
- 7 = 25 to.....
- 8 = 20 to.....
- 9 = Quarter to.....
- 10 = 10 to.....
- ||= 5 t σ......

Length and Height 'Learn by Heart' Facts

Children in Year Two need to know the measures and wocabulary shown below. Look around the house and in the outside environment and ask children to tell you what they think certain things you spot would be measured in. Try to use the wocabulary of 'taller', ;shorter', 'longer' etc.

Centimeter = cm

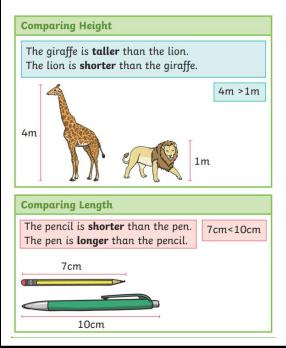
Meter = m

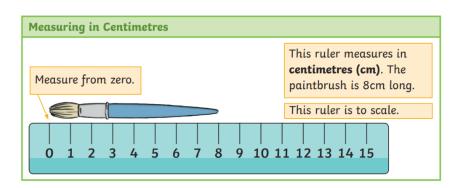
Taller

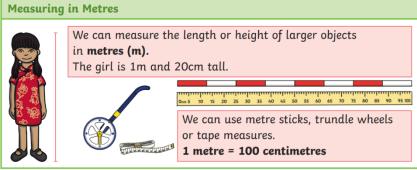
Smaller

Shorter

longer







Days of the Week 'Learn by Heart' Facts

Children need to know the order of the days of the week and to be able to name each day starting with a capital letter.

- > Monday
- > Tuesday
- > Wednesday
- > Thursday
- > Friday
- > Saturday
- Sunday

Months of the Year 'Learn by Heart' Facts

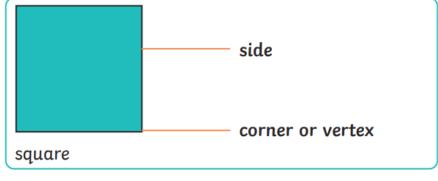
Children need to be able to name (starting with a capital letter) and order the months of the year:

- > January
- > February
- > March
- > April
- > May
- > June
- > July
- > August
- September
- > October
- > November
- > December

2D Shape 'Learn by Heart' Facts

Children can name and recognize the following 2D shapes and know their properties. They can also recognize the shapes within their environment.

Shape	Sides	Corners (Vertices)
Square	4	4
Rectangle	4	4
Circle	1	0
Triangle	3	3
Pentagon	5	5
Hexagon	6	6
Octogon	8	8



3D Shape 'Learn by Heart' Facts

Children can name and recognise the following 3D shapes and give their properties (number of faces, edges and vertices (corners). They are also able to recognise these shapes in the environment (e.g. a tin of baked beans and a tin of tuna are both cylinders).

6 6 3	12 12 2	Vertices 8 8
3	2	0
4	6	4
5	8	5
1	0	0
2	1	1
face edge		-
	1 2 face	5 8 1 0 2 1

cube

Number Bonds to 20 (+) 'Learn by Heart' Facts

Children should know the following facts. The aim is for them to recall these facts instantly:

$$\rightarrow$$
 0 + 20 = 20

$$> 2 + 18 = 20$$

$$> 3 + 17 = 20$$

$$> 6 + 14 = 20$$

$$\rightarrow$$
 7 + 13 = 20

$$> 10 + 10 = 20$$

$$20 + 0 = 20$$

$$19 + 1 = 20$$

$$18 + 2 = 20$$

$$17 + 3 = 20$$

$$|| + 9 = 20$$

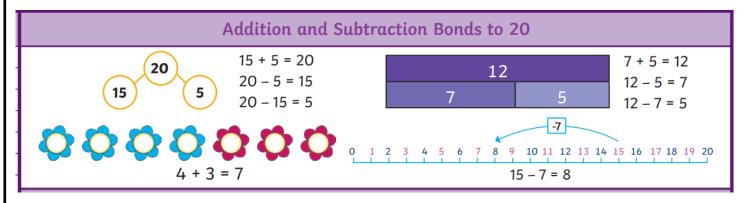
Key Vocabulary

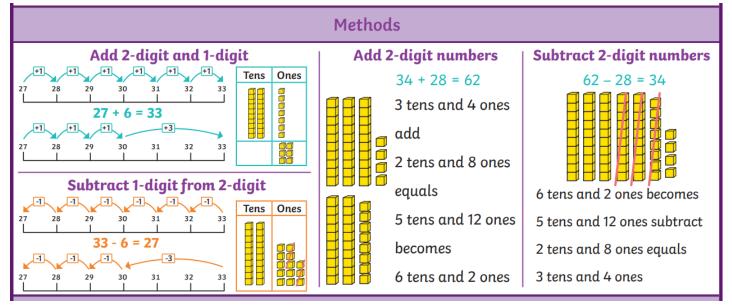
What do I add to 5 to make 20?

What is 20 take away 6?

What is 3 less than 20?

How many more than 16 is 20?





Number Bonds to 20 (-) 'Learn by Heart' Facts

Children should know the following facts. The aim is for them to recall these facts instantly:

Key Vocabulary

What do I add to 5 to make 20?

How many more than 16 is 20?

What is 20 take away 6?

What is 3 less than 20?

$$> 20 - 2 = 18$$

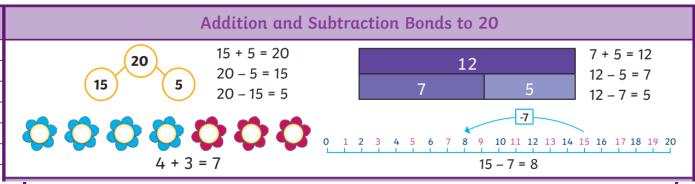
$$> 20 - 5 = 15$$

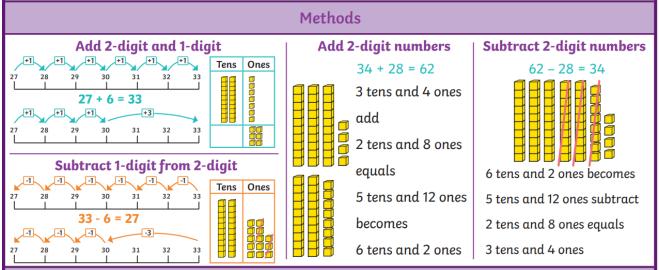
$$> 20 - 7 = 13$$

$$20 - 13 = 7$$

$$20 - 12 = 8$$

They should be able to answer these questions in any order, including missing number questions e.g. 19 + 0 = 20 or 20 - 0 = 8.





Two times table 'Learn by Heart' Facts

Children should know multiplication facts for the two times table.

MULTIPLICATION

 $2 \times 1 = 2$

 $2 \times 2 = 4$

 $2 \times 3 = 6$

 $2 \times L = 8$

 $2 \times 5 = 10$

 $2 \times 6 = 12$

 $2 \times 7 = 1/$

 $2 \times 8 = 16$

 $2 \times 9 = 18$

 $2 \times 10 = 20$

 $2 \times 11 = 22$

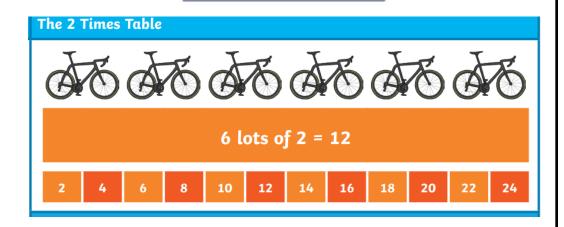
 $2 \times 12 = 24$

Key Vocabulary

What is 2 multiplied by 7?

What is 2 times 9?

What is 12 divided by 2?



Two times table 'Learn by Heart' Facts

Children should know multiplication facts for the two times table.

MULTIPLICATION

 $2 \times 1 = 2$

 $2 \times 2 = 4$

 $2 \times 3 = 6$

 $2 \times 4 = 8$

 $2 \times 5 = 10$

 $2 \times 6 = 12$

 $2 \times 7 = 14$

 $2 \times 8 = 16$

 $2 \times 9 = 18$

 $2 \times 10 = 20$

 $2 \times II = 22$

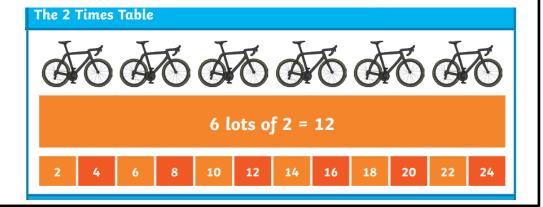
 $2 \times 12 = 24$

Key Vocabulary

What is 2 multiplied by 7?

What is 2 times 9?

What is 12 divided by 2?



Two times table 'Learn by Heart' Facts

Children should know the division facts for the two times table.

DIVISION

$$4 \div 2 = 2$$

$$6 \div 2 = 3$$

$$8 \div 2 = 4$$

$$10 \div 2 = 5$$

$$12 \div 2 = 6$$

$$16 \div 2 = 8$$

$$18 \div 2 = 9$$

$$20 \div 2 = 10$$

$$22 \div 2 = ||$$

$$24 \div 2 = 12$$

Key Vocabulary

What is 2 multiplied by 7?

What is 2 times 9?

What is 12 divided by 2?

Two times table 'Learn by Heart' Facts

Children should know multiplication and division facts for the two times table.

DIVISION

$$2 \div 2 = 1$$

$$6 \div 2 = 3$$

$$10 \div 2 = 5$$

$$12 \div 2 = 6$$

$$14 \div 2 = 7$$

$$20 \div 2 = 10$$

$$24 \div 2 = 12$$

Key Vocabulary

What is 2 multiplied by 7?

What is 2 times 9?

What is 12 divided by 2?

Doubles of Numbers to 20 'Learn by Heart' Facts (Part 1)

Children should know how to double numbers to 20. The aim is for children to recall the following facts instantly:

Doubles of Numbers to 20 'Learn by Heart' Facts (PART I)

Children should know how to double numbers to 20. The aim is for children to recall the following facts instantly:

Doubles of Numbers to 20 'Learn by Heart' Facts (PART 2)

Children should know how to double numbers to 20. The aim is for children to recall the following facts instantly:

|| + || = 22 |2 + |2 = 24 |3 + |3 = 26 |4 + |4 = 28 |5 + |5 = 30 |6 + |6 = 32 |7 + |7 = 34 |8 + |8 = 36 |9 + |9 = 38 |20 + 20 = 40

Doubles of Numbers to 20 'Learn by Heart' Facts (PART 2)

Children should know how to double numbers to 20. The aim is for children to recall the following facts instantly:

|| + || = 22 |2 + |2 = 24 |3 + |3 = 26 |4 + |4 = 28 |5 + |5 = 30 |6 + |6 = 32 |7 + |7 = 34 |8 + |8 = 36 |9 + |9 = 38 |20 + 20 = 40

Halves of Numbers to 20 'Learn by Heart' Facts

Children should know halves of numbers to 20. The aim is for children to recall the following facts instantly:

```
1/2 of 0 = 0

1/2 of 2 = 1

1/2 of 4 = 2

1/2 of 6 = 3

1/2 of 8 = 4

1/2 of 10 = 5

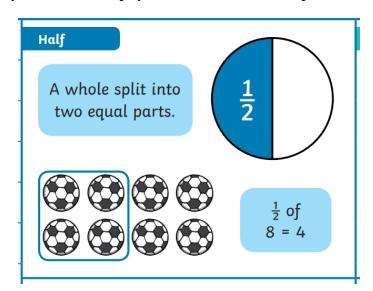
1/2 of 12 = 6

1/2 of 14 = 7

1/2 of 16 = 8

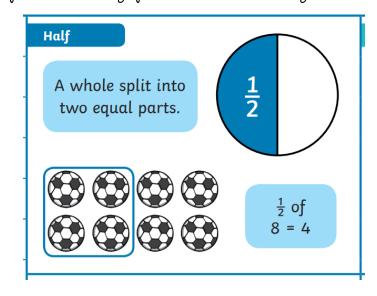
1/2 of 18 = 9

1/2 of 20 = 10
```



Halves of Numbers to 20 'Learn by Heart' Facts

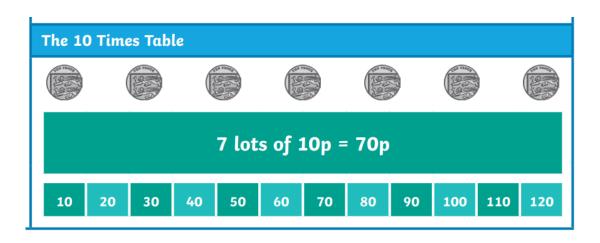
Children should know halves of numbers to 20. The aim is for children to recall the following facts instantly:



Ten Times Table Multiplication 'Learn by Heart' Facts

 $|0 \times | = |0|$ $|0 \times 2 = 20|$ $|0 \times 3 = 30|$ $|0 \times 4 = 40|$ $|0 \times 5 = 50|$ $|0 \times 6 = 60|$ $|0 \times 7 = 70|$ $|0 \times 8 = 80|$ $|0 \times 9 = 90|$ $|0 \times 10 = |00|$

 $|0 \times || = ||0 \ |0 \times || = ||20 \ |$

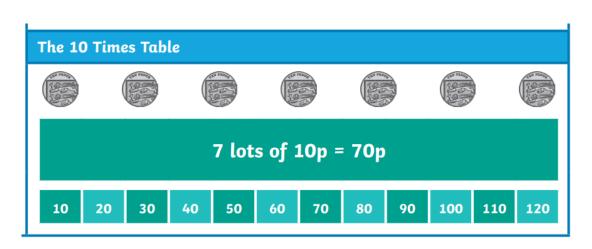


Children should be able to answer these questions in any order, including missing number questions e.g. $10 \times 0 = 80$.

Ten Times Table Multiplication 'Learn by Heart' Facts

 $|0 \times 1 = |0|$ $|0 \times 2 = 20|$ $|0 \times 3 = 30|$ $|0 \times 4 = 40|$ $|0 \times 5 = 50|$ $|0 \times 6 = 60|$ $|0 \times 7 = 70|$ $|0 \times 8 = 80|$ $|0 \times 9 = 90|$ $|0 \times |0 = |00|$ $|0 \times |0 = |00|$

 $10 \times 12 = 120$



Children should be able to answer these questions in any order, including missing number questions e.g. $10 \times 0 = 80$.

Ten Times Table Division 'Learn by Heart' Facts

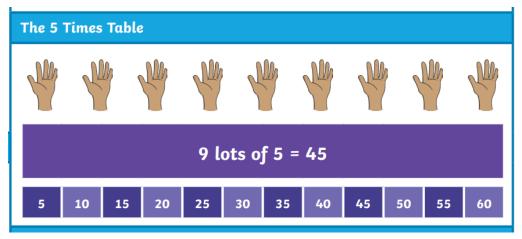
Children should be able to answer these questions in any order, including missing number questions e.g. $10 \times 0 = 80$ or $0 \div 10 = 6$.

Ten Times Table Division 'Learn by Heart' Facts

10 ÷ 10 = 1 20 ÷ 10 = 2 30 ÷ 10 = 3 40 ÷ 10 = 4 50 ÷ 10 = 5 60 ÷ 10 = 6 70 ÷ 10 = 7 80 ÷ 10 = 8 90 ÷ 10 = 9 100 ÷ 10 = 10 110 ÷ 10 = 11 120 ÷ 10 = 12

Children should be able to answer these questions in any order, including missing number questions e.g. $10 \times 0 = 80$ or $0 \div 10 = 6$.

Five Times Table Multiplication 'Learn by Heart' Facts



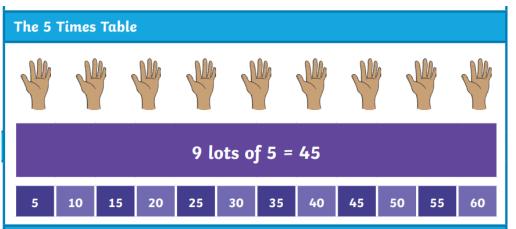
Children should be able to answer these questions in any order, including missing number questions e.g. $5 \times 0 = 40$

Five Times Table Multiplication 'Learn by Heart' Facts

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

5 × 6 = 30 5 × 7 = 35 5 × 8 = 40 5 × 9 = 45 5 × 10 = 50 5 × 11 = 55 5 × 12 = 60

 $5 \times 5 = 25$



Children should be able to answer these questions in any order, including missing number questions e.g. $5 \times 0 = 40$

Five Times Table Division 'Learn by Heart' Facts

5 ÷ 5 = 1 10 ÷ 5 = 2 15 ÷ 5 = 3 20 ÷ 5 = 4 25 ÷ 5 = 5 30 ÷ 5 = 6 35 ÷ 5 = 7 40 ÷ 5 = 8 45 ÷ 5 = 9 50 ÷ 5 = 10 55 ÷ 5 = 11 60 ÷ 5 = 12

Children should be able to answer these questions in any order, including missing number questions e.g. $5 \times 0 = 40$ or $0 \div 5 = 9$.

Five Times Table Division 'Learn by Heart' Facts

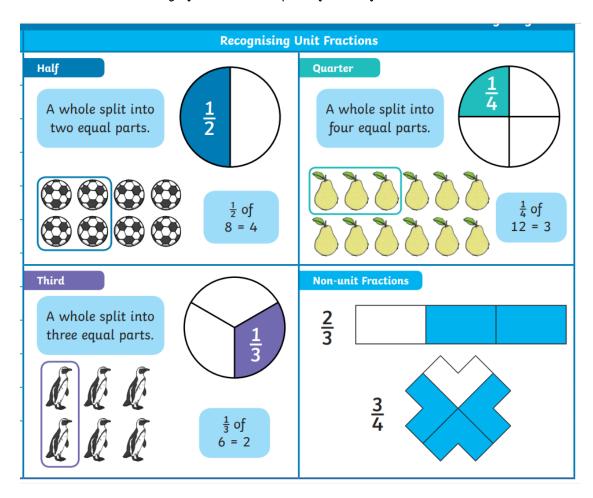
5 ÷ 5 = 1 10 ÷ 5 = 2 15 ÷ 5 = 3 20 ÷ 5 = 4 25 ÷ 5 = 5 30 ÷ 5 = 6 35 ÷ 5 = 7 40 ÷ 5 = 8 45 ÷ 5 = 9 50 ÷ 5 = 10 55 ÷ 5 = 11 60 ÷ 5 = 12

Children should be able to answer these questions in any order, including missing number questions e.g. $5 \times 0 = 40$ or $0 \div 5 = 9$.

Fractions 'Learn by Heart' Facts (PART I)

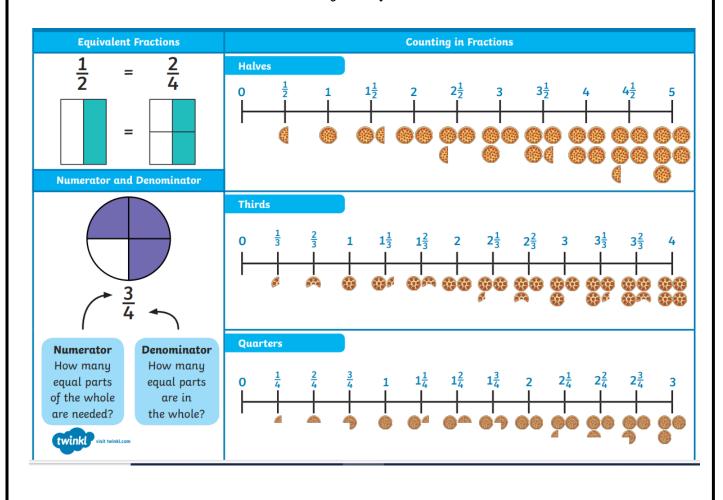
Children need to be able to recognize and represent and recognise 1/3, % and 1/2. Can you make fractions using food, play-doh or anything else that you can find in the home!

Sharing food is perfect for this!



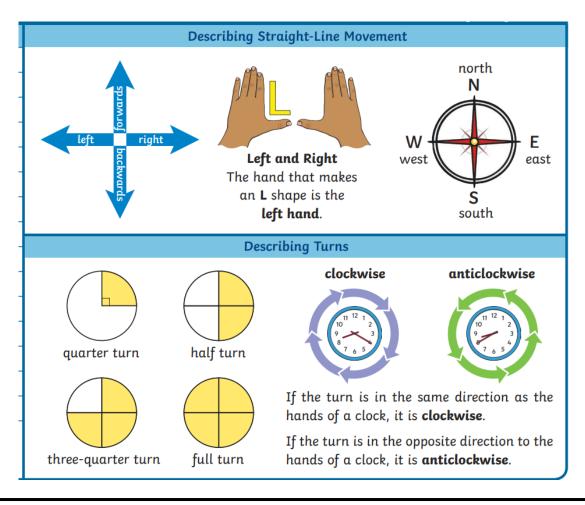
Fractions 'Learn by Heart' Facts (PART 2)

Children need to be able to count in fractions of halves, thirds and quarters. Use the resource below to support counting in fractions.



Position and Direction 'Learn by Heart' Facts

In Year 2, children need to be able to understand what is left and what is right. They also need to understand and name the parts of a compass (just North, East, South and West). When describing turs, they need to understand and be able to foolw the language used below. They could practise turning in the house following adult instructions!

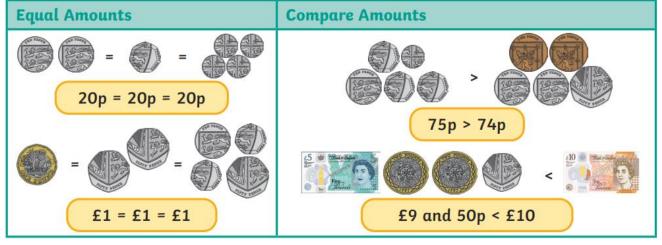


Money 'Learn by Heart' Facts

In Year 2, children should be able to recognise and name all of the coins used in the United Kingdom. They should also be able to make equal amounts of a given amount using different coins (see below). Ask your child if they can name or make amounts using coins that you may have at home!

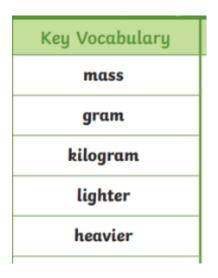






Mass'Learn by Heart' Facts

Children in Year 2 need to use and understand the wocabulary below. You could weigh objects in the home using scales and ask your child questions to support their understanding of the wocabulary e.g. Is a pencil lighter or heavier than a book?





Capacity 'Learn by Heart' Facts

Children in Year 2 need to use and understand the vocabulary below. You could talk objects in the home that have these measures written on them (milk) and ask your child questions to support their understanding of the vocabulary e.g. Is the milk bottle half full? Which jug will hold the most water?

