Learn by Heart Facts

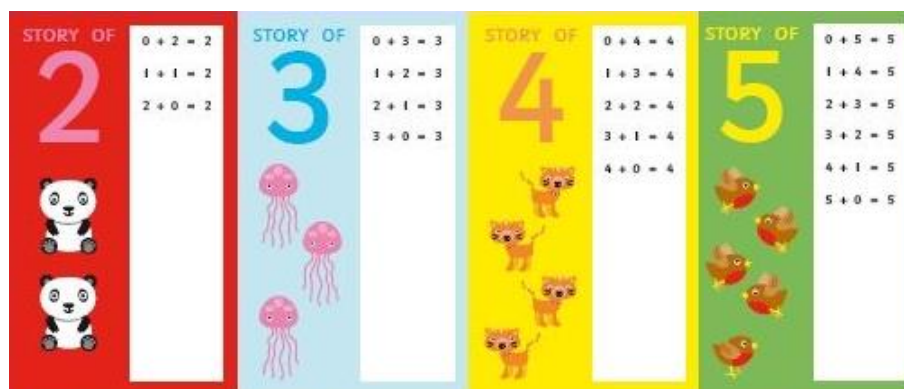# Year 1
Autumn 1

Crossflatts
PRIMARY SCHOOL

I know number bonds for each number to 5.

By the end of this half term, you should know the following facts. The aim is for them to recall these facts instantly.

You should be able to answer these questions in any order, including missing number questions e.g. 3 + ◯ = 5 or 4 − ◯ = 2.

Key Vocabulary

Add

Plus

More than

Top Tips

- The secret to success is practising little and often. Can you practise these facts while walking to school or during a car journey? You don't need to practise them all at once; perhaps you could have a fact of the day.
- Use practical resources. You have one potato on your plate and get three more. How many do you have now?

Learn by Heart Facts

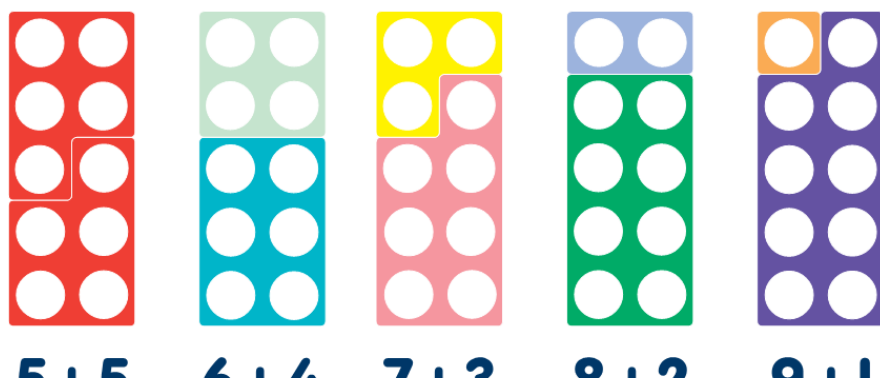# Year 1
Autumn 2

Crossflatts
PRIMARY SCHOOL

I know number bonds to 10.

By the end of this half term, you should know the following facts. The aim is for you to recall these facts instantly.

Key Questions

3 + ? = 10

? + 7 = 10

3 + 7 = ?

10 -3 = 7

Example Fact Family

- 2 + 8 = 10
- 8 + 2 = 10
- 10 - 8= 2

You should be able to answer these questions in any order, including missing number questions.

E.g. 6 + ? = 10 OR 10 - ? = 3

- The secret to success is practising little and often. Can you practise these facts while walking to school or during a car journey? You don't need to practise them all at once; perhaps you could have a fact of the day.
- Visit the websites https://www.topmarks.co.uk/Search.aspx?q=number+bonds+to+10 and https://www.mathplayground.com/number_bonds_10.html or search for other online games.
- Use practical resources; make collections of 10 objects. Ask questions such as, *"How many more pine cones would I need to make 10?"*
- Make matching cards or your own games for your friends and family to play.

Learn by Heart Facts

Year 1

Spring 1

Crossflatts
PRIMARY SCHOOL

I know doubles and halves of numbers to 10.

By the end of this half term, you should know the following facts. The aim is for you to recall these facts instantly.

0+0	1+1	2+2	3+3
0	2	4	6
4+4	5+5	6+6	7+7
8	10	12	14
8+8	9+9	10+10	
16	18	20	

½ of 2 = 1
½ of 4 = 2
½ of 6 = 3
½ of 8 = 4
½ of 10 = 5

Key Questions

What is half of 20?

What is double 6?

What is 7 + 7?

9 + ? =18

Top Tips

- The secret to success is practising little and often. Can you practise these facts while walking to school or during a car journey? You don't need to practise them all at once; perhaps you could have a fact of the day.
- Ping Pong game. In this game, your parent says, "Ping," and you reply, "Pong." Then your parent says a number and you double it. For a harder version, the adult can say, "Pong." The child replies, "Ping," and then halves the next number given.
- Create your own games (e.g. lift the flap, snakes and ladders where you have double and half squares, matching cards).
- Play online games http://www.snappymaths.com/multdiv/doubhalf12/doubhalf12.htm and https://www.topmarks.co.uk/Flash.aspx?f=dartboarddoublesandhalves.

Learn by Heart Facts

Year 1
Spring 2

Crossflatts PRIMARY SCHOOL

I can tell the time

By the end of this half term, you should know the following facts. The aim is for you to recall these facts instantly.

You need to be able to tell the time using a clock with hands, including:

- I can tell the time to the nearest hour.
- I can tell the time to the nearest half hour.

Key Vocabulary
O'clock
Half past
60 minutes/ 30 minutes
Clock/ watch
Hands (big and little)

7:00 — It is 7 o'clock.

2:30 — It is half past 2.

Top Tips

- The secret to success is practising little and often. Can you practise these facts while walking to school or during a car journey? You don't need to practise them all at once; perhaps you could have a fact of the day.
- **TALK TALK TALK!** Discuss what time things happen. When do you wake up? What time do you eat breakfast? How long until...?
- Make sure that you have an analogue clock visible in your house or that you wear a watch with hands.
- Play "What's the time Mr Wolf?".
- Have some responsibility for watching the clock. E.g. You could be in charge of telling your family when it is 3 o'clock and time to set off.
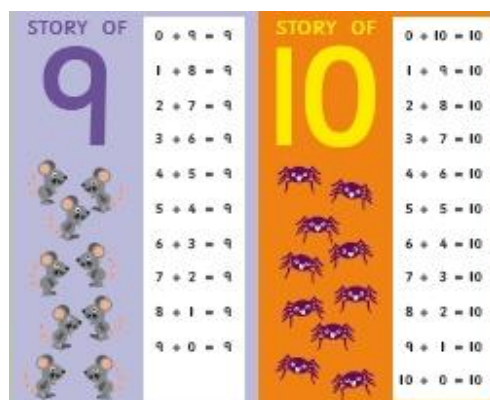- Read books and play games about time.
- Play online games https://mathsframe.co.uk/en/resources/resource/116/telling-the-timeTop Tips and https://www.splashmath.com/time-games

Learn by Heart Facts

Year 1

Summer 1

Crossflatts PRIMARY SCHOOL

I know number bonds for 7, 8, 9 and 10.

By the end of this half term, you should know the following facts. The aim is for you to recall these facts **instantly.**

STORY OF 7
0 + 7 = 7
1 + 6 = 7
2 + 5 = 7
3 + 4 = 7
4 + 3 = 7
5 + 2 = 7
6 + 1 = 7
7 + 0 = 7

STORY OF 8
0 + 8 = 8
1 + 7 = 8
2 + 6 = 8
3 + 5 = 8
4 + 4 = 8
5 + 3 = 8
6 + 2 = 8
7 + 1 = 8
8 + 0 = 8

STORY OF 9
0 + 9 = 9
1 + 8 = 9
2 + 7 = 9
3 + 6 = 9
4 + 5 = 9
5 + 4 = 9
6 + 3 = 9
7 + 2 = 9
8 + 1 = 9
9 + 0 = 9

STORY OF 10
0 + 10 = 10
1 + 9 = 10
2 + 8 = 10
3 + 7 = 10
4 + 6 = 10
5 + 5 = 10
6 + 4 = 10
7 + 3 = 10
8 + 2 = 10
9 + 1 = 10
10 + 0 = 10

Key Questions

What is 4 **plus** 3?

3 + ? = 7

7 - ? = 3

7 − 3 = 4

Top Tips

- The secret to success is practising little and often.
- Can you practise these while walking to school or during a car journey? You don't need to practise them all at once: perhaps you could have a fact of the day.
- The secret to success is practising little and often. Can you practise these while walking to school or during a car journey? You don't need to practise them all at once; perhaps you could have a fact of the day.
- Use some counters (Lego bricks, pasta shapes, buttons, sweets) and get your family to ask questions such as: What do you add to 3 to make 8? What do you add to 2 to make 9? Use the counters to work it out.
- Get your parents to write a list of ten numbers then time you to see how long it takes to write down the other number that makes up each pair (2 and 8; 5 and 5; 4 and 6).
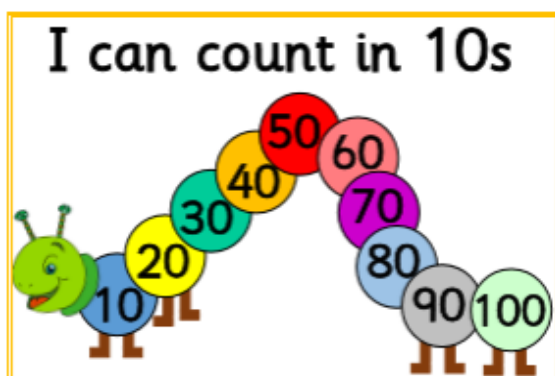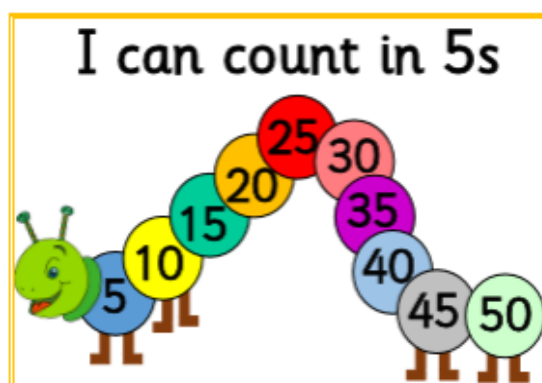- Play online games on https://www.topmarks.co.uk/maths-games/5-7-years/addition-and-subtraction

Learn by Heart Facts

Year 1

Summer 2

I can count in multiples of 2s, 5s and 10s.

By the end of this half term, you should know the following facts. The aim is for you to recall these facts **instantly.**

I can count in 2s

10 12 8 14 6 16 4 18 2 20

I can count in 5s

25 30 20 35 15 40 10 45 5 50

I can count in 10s

50 60 40 70 30 80 20 90 10 100

Key Vocabulary

Two, five, ten

Multiples

Patterns

Counting up/ down

Sequences/ sequencing

Top Tips

- The secret to success is practising little and often. Can you practise these facts while walking to school or during a car journey? You don't need to practise them all at once; perhaps you could have a fact of the day.
- Make sure that you are pronouncing the numbers correctly and not getting confused between sixt**een** and sixt**y.**
- Spot patterns – What patterns can you spot when counting up in 5s? Are there any similarities with counting up in 10s?
- Use 2p, 5p and 10p coins to help you count in 2s, 5s and 10s.
- Play online games https://www.ictgames.com/mobilePage/duckShoot/index.html and https://www.topmarks.co.uk/Search.aspx?q=count%20on%20in%202s%20and%2010s

Learn by Heart Facts

Year 2
Autumn 1

Crossflatts
PRIMARY SCHOOL

I know number bonds to 20.

By the end of this half term, you should know the following facts. The aim is for you to recall these facts **instantly**.

Key Questions

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?

You should be able to answer these questions in any order, including missing number questions.

E,g. 19+ ? = 20 OR 20- ? = 8

Top Tips

- The secret to success is practising little and often. Can you practise these facts while walking to school or during a car journey? You don't need to practise them all at once; perhaps you could have a fact of the day.
- Use what you already know...Use number bonds to 10 (e.g. 7 + 3 = 10) to work out related number bonds to 20 (e.g. 17 + 3 = 20).
- Use practical resources – Make collections of 20 objects. Ask questions such as, *"How many more conkers would I need to make 20?"*
- Make a poster using Numicon pictures. You can find pictures of the Numicon shapes here: bit.ly/NumiconPictures – your child could make a poster showing the different ways of making 20.
- Play games! You can play number bond pairs online or get your parents to quiz you.
- Make matching cards or your own games for your friends and family to play.

Learn by Heart Facts

Year 2
Autumn 2

I know doubles and halves of numbers to 20.

By the end of this half term, you should know the following facts. The aim is for you to recall these facts **instantly**.

1 + 1 = 2	6 + 6 = 12	11 + 11 = 22	16 + 16 = 32
2 + 2 = 4	7 + 7 = 14	12 + 12 = 24	17 + 17 = 34
3 + 3 = 6	8 + 8 = 16	13 + 13 = 26	18 + 18 = 36
4 + 4 = 8	9 + 9 = 18	14 + 14 = 28	19 + 19 = 38
5 + 5 = 10	10 + 10 = 20	15 + 15 = 30	20 + 20 = 40

½ of 2 = 1
½ of 4 = 2
½ of 6 = 3
½ of 8 = 4
½ of 10 = 5
½ of 12 = 6
½ of 14 = 7
½ of 16 = 8
½ of 18 = 9
½ of 20 = 10

Key Vocabulary

Double, Half, Halve, Ones, Tens

Top Tips

- The secret to success is practising little and often.
- Can you practise these facts while walking to school or during a car journey? You don't need to practise them all at once; perhaps you could have a fact of the day.
- Use what you already know. Can you find the connection between the 2 times table and double facts?
- Ping Pong game. In this game, your parent says, "Ping," and you reply, "Pong." Then your parent says a number and you double it. For a harder version, the adult can say, "Pong." The child replies, "Ping," and then halves the next number given.
- Play online games or create your own games (e.g. lift the flap, snakes and ladders where you have double and half squares, matching cards).

Learn by Heart Facts

Year 2
Spring 1

Crossflatts
PRIMARY SCHOOL

I can tell the time.

By the end of this half term, you should know the following facts. The aim is for you to recall these facts **instantly.**

You need to be able to tell the time using a clock with hands. This target can be broken down into several steps:

➢ I can tell the time to the nearest hour.
➢ I can tell the time to the nearest half hour.
➢ I can tell the time to the nearest quarter hour.

Key Vocabulary

O'clock

Half past

Quarter past

Quarter to

60 minutes/ 30 minutes/ 15 minutes

Clock/ watch

Hands (big and little)

Top Tips

- The secret to success is practising little and often.
- **TALK TALK TALK.** Talk about time and discuss what time things happen. When do you wake up? What time is it when…? How long until…?
- Make sure that you have an analogue clock visible in your house or that you wear a watch with hands.
- Get your parents to ask you the time regularly. You could also have some responsibility for watching the clock: "The cakes need to come out of the oven at quarter past four." or "We need to leave the house at half past eight."
- Play online games https://mathsframe.co.uk/en/resources/resource/116/telling-the-timeTop Tips and https://www.splashmath.com/time-games

Learn by Heart Facts

Year 2
Spring 2

Crossflatts
PRIMARY SCHOOL

I can find different combinations of coins that equal the same amounts of money.

By the end of this half term, children should know the following facts. The aim is for them to recall these facts **instantly.**

To make 20p we can use

20 x 1p coins

10 x 2p coins

4 x 5p coins

2 x 10p coins

1 x 20p coin

Key Vocabulary

Count/ calculate/ add/ subtract
Pence/ penny (p)
Pound (£)
Coin/ note
Exchange
Expensive/ cheap
More/less,
Pay/ buy/ earn
Cost/ change

Top Tips

- The secret to success is practising little and often.
- When you're shopping, model making up the various amounts needed through thinking/counting aloud. So, for example, say, "That's 85p, so 50p, 20p, 10p and a 5p – 85p in total".
- Investigate every possibility of making a certain amount. E.g. "I want to buy a toy train costing 90p. How many different combinations of 50ps, 20ps and 10ps could make this amount?".
- Play a game by having several purses, each with the same amount in, made up various ways, and spot how each has been done. Do this a few times with different amounts.
- Play online games on https://www.topmarks.co.uk/maths-games/5-7-years/money

Learn by Heart Facts

Year 2
Summer 1

I know the names and properties of 2D and 3D shapes.

By the end of this half **t**erm, you should know the following facts. The aim is for you to recall these facts **instantly**.

You need to be able to identify and describe the properties of 2-D shapes and 3-D shapes. This target can be broken down into several steps.

- o **Recognise circles, rectangles, squares, triangles, pentagons and hexagons.**
- o **Recognise spheres, cuboids, cubes, triangular prisms, cylinders and square based pyramids.**
- o **Recall the number of sides and corners in a 2D shape.**
- o **Recall the number of edges, vertices and faces in a 3D shape.**
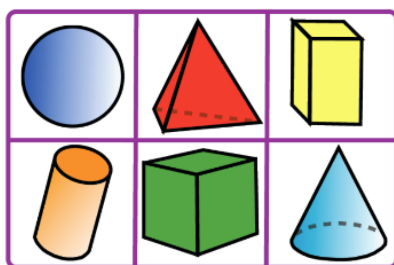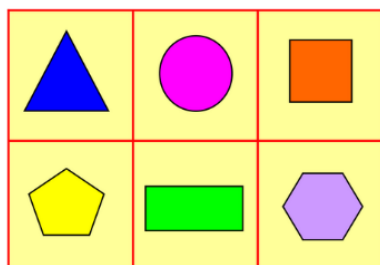
Key Vocabulary

Circle/ triangle/ rectangle/ square/ pentagon/ hexagon

Sphere/ cuboid/ triangular prism/ cylinder/ square based pyramid

Symmetry

Edges

Vertices

Faces

Sides

Corners

Top Tips

- The secret to success is practising little and often.
- Spot shapes in the everyday life. E.g. a box of cereal is a cuboid and building blocks are cubes.
- Make pictures and drawings using different shape. E.g. A rocket or a house.
- Sort everyday objects by their properties (see objectives above).
- Play online games https://www.topmarks.co.uk/maths-games/5-7-years/shapes and https://www.topmarks.co.uk/Search.aspx?q=3%20d%20shapes

Learn by Heart Facts

Year 2
Summer 2

Crossflatts
PRIMARY SCHOOL

I know all the number facts for the 2, 5 and 10 times tables.

By the end of this half term, you should know the following facts. The aim is for you to recall these facts **instantly**.

2 Times Table

1 x 2 =	2
2 x 2 =	4
3 x 2 =	6
4 x 2 =	8
5 x 2 =	10
6 x 2 =	12
7 x 2 =	14
8 x 2 =	16
9 x 2 =	18
10 x 2 =	20
11 x 2 =	22
12 x 2 =	24

Division Facts

2 ÷ 2 =	1
4 ÷ 2 =	2
6 ÷ 2 =	3
8 ÷ 2 =	4
10 ÷ 2 =	5
12 ÷ 2 =	6
14 ÷ 2 =	7
16 ÷ 2 =	8
18 ÷ 2 =	9
20 ÷ 2 =	10
22 ÷ 2 =	11
24 ÷ 2 =	12

$4 \times 5 = 20$

$20 \div 5 = 4$

$20 \div 4 = 5$

Key Vocabulary/ Questions

Multiplication/ division facts

What are 2 groups of 10?

What is 3 lots of 10?

How many 5s are in 50?

Top Tips

- The secret to success is practising little and often. Can you practise these facts while walking to school or during a car journey? You don't need to practise them all at once; perhaps you could have a fact of the day.
- Visit the websites https://www.topmarks.co.uk/maths-games/7-11-years/times-tables and https://www.timestables.co.uk/games/. Or try online games on the Apps 'Squeebles' and 'Maths Rockx'
- **Jumbled number sentences** – You will need 12 strips of card. You need to write each division fact out for the times table you are learning. If you are learning the 5x table, you need to write out: 5 ÷ 5 = 1, 10 ÷ 5 = 2, 15 ÷ 5 = 3 etc. It may be easier to write out your 5x table and then convert this to division facts. Cut up the strips so that they have the questions and answers on separate cards. Jumble up all the cards and then time yourself matching them up again.
- Test yourself with quick fire quizzes! How many questions can you answer in a minute?