Maths Challenge Set 1

How to use the challenges

The maths challenge sheets include the main facts that the children need to recall and use by the end of the academic year. These facts are broken down into twelve targets, each given a colour. They are introduced during maths lessons and reinforced regularly but further practise at home is extremely helpful. One target at a time will be stuck in to your child's Home/School book.

- Regular practise is more effective than one longer session a week. The children don't always need to write something down.

 Practise can be oral.
- There are lots of activities on the School 360 Learning platform that will support these challenges.
- It is important that when children are confident with a set of facts, they continue to practise them and apply them in a practical way. For example, when a child has learned all number pairs to 20; 17 + 3 = 20, 20 17 = 3, they can use this to solve problems. "I have 20p. I spend 16p, how much do I have left?",
- "I have saved 13p. How much more do I need to have 20p?" etc. The children can discuss these questions and solve them mentally, without always writing something down.
- Regular assessment takes place in school, during maths lessons. When your child is confident with a particular 'colour' on the challenge sheet, their teacher will colour all of the faces on the challenge sheet that is in their Home! School book.

Remember, these challenges alone will not be enough to help your child learn these skills.

Websites to support.

Maths Challenge – Set 1



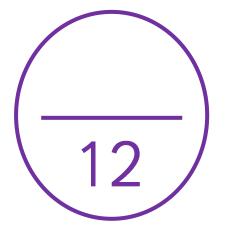
I can write numbers from 0-20 in digits and words.



2 minutes

Say the numbers and ask your child to write them in numerals and words. If incorrect show your child the correct spelling/numerals. Challenge: Cover the numbers/words up and see if they write them.

E.G. Show child 'one' in words and ask them to write numeral...or show them the numeral one as them to write numeral.



*		7
one	1	sever
three	3	nine
five	5	ten
		twelv

* >	
seven	7
nine	9
ten	10
twelve	12

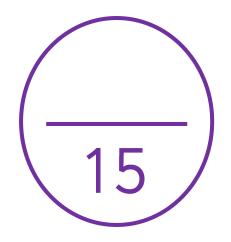
**>	*
thirteen	13
eighteen	18
twenty	20
eight	8
fourteen	14

Maths Challenge Set 1 - White



I can write numbers from 0-20 in digits and words.





	*
6	six
4	four
0	zero
2	two
5	five

7	**
9	nine
15	fifteen
19	nineteen
11	eleven
12	twelve

*	**
13	thirteen
17	seventeen
16	sixteen
15	fifteen
20	twenty

Maths Challenge Set 1 - Red



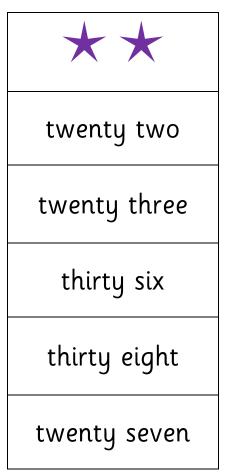
I can read and write numbers to 100 in digits and words.



Previous score

15

*
one
eleven
eight
twenty
eighteen



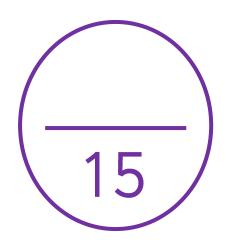
thirty eight	
forty three	
forty six	
forty five	
fifty	

Maths Challenge Set 1 - Red

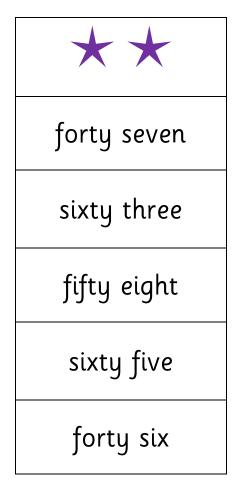


I can read and write numbers to 100 in digits and words.





*
eighteen
nineteen
thirty two
twenty nine
forty





Maths Challenge Set 1 - Orange



I can count to and across 100, forwards from any given number.



Previous score





Ask children to give you the next three numbers in each sequence.



2, 3, 4.....

1, 2, 3.....

8, 9, 10

11, 12, 13......

15, 16, 17.....



16, 17, 18.....

26, 27, 28.....

36, 37......

56, 57.....

43, 44



66.....

76.....

81.....

78.....

Maths Challenge Set 1 - Orange



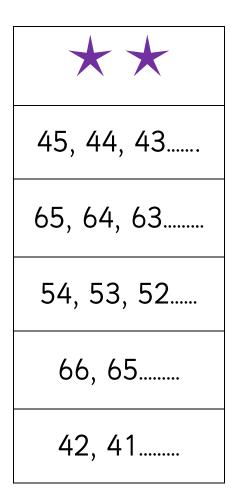
I can count to and across 100, backwards from any given number.



Ask children to give you the next three numbers in each sequence.



*	
10, 9, 8	
15, 14, 13	
21, 20, 19	
33, 32, 31	
39, 38, 37	



71
80
87
94
100

Maths Challenge Set 1 - Yellow



I can count on in multiples of 2 to 100



Ask children to give you the next three numbers in each sequence.

Previous score





22, 24, 26......



0, 2, 4.....

2, 4, 6.....

32, 34, 36......

78.....

66, 68.....

8, 10.....

44, 46, 48.....

86.....

12, 14.....

48, 50

90.....

16, 18.....

60, 62.....

Maths Challenge Set 1 - Yellow



I can count on in multiples of 2 to 100 from any given number.



Ask children to give you the next three numbers in each sequence.

Previous score







3, 5, 7.....

21, 23.....

87.....

1, 3, 5.....

33, 35.....

77.....

7, 9.....

47, 49...

81.....

11.....

59.....

91.....

15, 17.....

61, 63.....



Maths Challenge Set 1 - Green



I can count on in multiples of 5 to 100



Ask children to give you the next three numbers in each sequence.

Previous score



*



0, 5, 10.....

45, 50.....

80.....

5, 10, 15.....

65, 70, 75.....

90.....

10, 15.....

60.....

75.....

25, 30, 35.....

40, 45.....

95.....

30.....

35.....





Maths Challenge Set 1 - Green



I can count back in multiples of 5 to 100



Ask children to give you the next three numbers in each sequence.

Previous score







25, 20.....

35, 30.....

40, 35.....

45, 40....

30.....

65.....

60.....

70.....

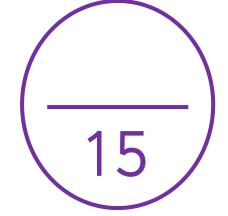
85....

55.....

75
80

95.....

90....



Maths Challenge Set 1 - Blue



I can count on in multiples of 10 to 100.



Ask children to give you the next 3 multiples of ten from the given number.







Maths Challenge Set 1 - Blue



I can count back in multiples of 10 to 100.

Ask children to give you the next 3 multiples of ten from the given number.





*	**
20	40
30	60
40	20
30	50
50	70

90	
80	
100	
120	
150	

Maths Challenge Set 1 - Indigo



I can partition all numbers to 10 in several ways.



2 minutes





$$5 = 4 + ?$$

$$4 = 2 + ?$$

$$3 = 1 + ?$$

$$5 = 3 + ?$$

$$6 = 4 + ?$$



$$8 = 2 + ?$$

$$7 = 7 + ?$$

$$8 = 3 + ?$$

$$6 = 2 + ?$$

$$8 = 1 + ?$$



$$9 = 7 + ?$$

$$8 = 5 + ?$$

$$9 = 9 + 0$$

$$10 = 2 + ?$$

$$10 = 7 + ?$$

Maths Challenge Set 1 - Indigo



I can partition all numbers to 10 in several ways.



2 minutes





$$5 = 2 + 1 + ?$$

$$4 = 1 + 1 + ?$$

$$3 - 2 = ?$$

$$5 - 2 = ?$$

$$6 - 6 = ?$$



$$8 - 2 = ?$$

$$8 = 6 + 1 + ?$$

$$8 - 3 = ?$$

$$7 - 2 = ?$$

$$8 - 1 = ?$$



$$9 - 7 = ?$$

$$8 - 5 - 1 = ?$$

$$9 - 9 = ?$$

$$10 - 2 = ?$$

$$10 - 7 = ?$$

Maths Challenge Set 1 - Violet



I know and use number bonds to 10.







$$10 = 10 + ?$$

$$10 = 7 + ?$$

$$10 = 1 + ?$$

$$10 = 5 + ?$$

$$10 = 2 + ?$$

$$10 = 6 + ?$$

$$10 = 9 + ?$$

$$10 = 3 + ?$$

$$10 = 5 + 1 + ?$$

$$10 = 0 + ?$$

$$10 = 1 + ?$$

$$10 = 2 + 2 + ?$$

$$10 = 8 + ?$$

$$10 = 4 + ?$$

$$10 = 3 + 5 + ?$$

Maths Challenge Set 1 - Violet



I know and use number bonds to 10



2 minutes





$$10 = 2 + 2 + ?$$

$$10 = 5 + 2 + ?$$

$$10 = 0 + 1 + ?$$

$$10 = 7 + 2 = ?$$

$$10 = 5 + 5 + ?$$



$$10 = 2 + 3 + ?$$

$$10 = 9 + 1 + ?$$

$$10 = 7 + 1 = ?$$

$$10 = 6 + 1 + ?$$

$$10 = 3 + 1 + ?$$



$$10 = 2 + 7 = ?$$

$$10 = 0 + 4 + 1 + ?$$

$$10 = 2 + 6 + ?$$

$$10 = 1 + 2 + ?$$

$$10 = 3 + 1 + 1 + ?$$

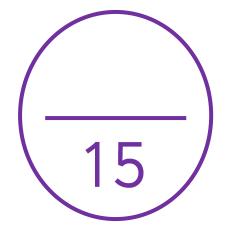
Maths Challenge Set 1 - Black



I can partition all numbers to 20 in several ways



2 minutes





$$11 = 10 + ?$$

$$12 = 1 + ?$$

$$11 = 11 + ?$$

$$12 = 10 + ?$$

$$12 = 9 + ?$$



$$15 = 10 + ?$$

$$15 = 11 + ?$$

$$17 = 11 + ?$$

$$13 = 7 + ?$$

$$16 = 9 + ?$$



$$20 = 18 + ?$$

$$20 = 12 + ?$$

$$20 = 11 + ?$$

$$20 = 4 + ?$$

$$20 = 7 + ?$$

Maths Challenge Set 1 - Black



I can partition all numbers to 20 in several ways



2 minutes





$$11 = 2 + ?$$

$$12 = 2 + ?$$

$$11 = 1 + ?$$

$$12 = 11 + ?$$

$$12 = 8 + ?$$



$$15 = 1 + ?$$

$$15 = 9 + ?$$

$$17 = 8 + ?$$

$$13 = 5 + ?$$

$$16 = 3 + ?$$



$$20 = 4 + ?$$

$$20 = 9 + ?$$

$$20 = 8 + ?$$

$$20 = 14 + ?$$

$$20 = 13 + ?$$

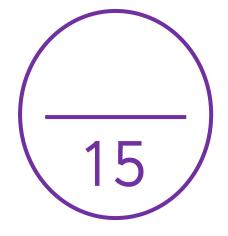
Maths Challenge Set 1 - Bronze



I know and use number bonds to 20.



2 minutes





$$20 = 10 + ?$$

$$20 = 19 + ?$$

$$20 = 0 + ?$$

$$20 = 18 + ?$$

$$20 = 20 + ?$$



$$20 = 2 + ?$$

$$20 = 4 + ?$$

$$20 = 14 + ?$$

$$20 = 1 + ?$$

$$20 = 9 + ?$$

$$20 = 13 + ?$$

$$20 = 5 + ?$$

$$20 = 12 + ?$$

$$20 = 1 + 2 + ?$$

$$20 = 6 + 2 + ?$$

Maths Challenge Set 1- Bronze



I know and use subtraction number bonds to 20



2 minutes





$$20 - 20 = ?$$

$$20 - 10 = ?$$

$$20 - 0 = ?$$

$$20 - 18 = ?$$

$$20 - 1 = ?$$



$$20 - 19 = ?$$

$$20 - 12 = ?$$

$$20 - 15 = ?$$

$$20 - 5 = ?$$

$$20 - 16 = ?$$



$$20 - 3 = ?$$

$$20 - 6 = ?$$

$$20 - 13 = ?$$

$$20 - 7 = ?$$

$$20 - 11 = ?$$

Maths Challenge Set 1 - Silver



I can find one more or less than a given number to 100



2 minutes

Previous score



$$23 + 1 =$$

$$43 + 1 =$$

$$33 + 1 =$$

$$32 + 1 =$$

$$54 + 1 =$$



$$76 + 1 =$$

$$53 + 1 =$$

$$56 + 1 =$$

$$76 + 1 =$$

$$66 + 1 =$$



1 more than 68

1 more than 95

15

Set 1

Maths Challenge Set 1 - Silver



I can find one more or less than a given number to 100



2 minutes

Previous score





$$19 - 1 =$$

$$22 - 1 =$$

1 less than 45 =

$$47 - 1 =$$

$$55 - 1 =$$



$$65 - 1 =$$

36 minus 1 =

$$63 - 1 =$$

$$88 - 1 =$$

$$89 - 1 =$$

$$99 - 1 =$$

76 subtract 1 =

1 less than 88 =

73 minus 1 =

90 minus 1 =

Maths Challenge Set 1 - Gold



I can solve addition calculations within 20.



60 seconds





$$5 + 1 =$$

$$8 + 3 =$$

$$9 + 4 =$$

$$11 + 3 =$$

$$12 + 5 =$$



$$11 + 6 =$$

$$11 + 2 =$$

$$13 + 6 =$$

$$11 + 4 =$$

$$10 + 8 =$$

$$10 + 9 =$$

$$11 + 8 =$$

$$14 + 2 =$$

$$16 + 4 =$$

$$17 + 2 =$$

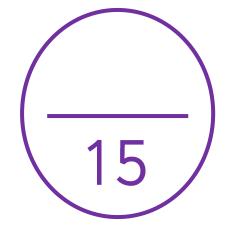
Maths Challenge Set 1 - Gold



I can solve subtraction calculations within 20.



60 seconds





$$10 - 1 =$$

$$12 - 2 =$$

$$13 - 3 =$$

$$13 - 1 =$$

$$13 - 4 =$$



$$15 - 5 =$$

$$15 - 8 =$$

$$15 - 9 =$$

$$15 - 10 =$$

$$16 - 2 =$$

$$20 - 12 =$$

$$20 - 9 =$$

$$20 - 1 =$$

$$17 - 8 =$$

$$16 - 9 =$$



White	Red	Orange	Yellow	Green	Blue
I can write numbers from 0 — 20 in digits and words. O zero Teen numbers may need extra attention: 13 thirteen	I can read and write numbers to 100 in digits and words. Spellings should be phonetically plausible	I can count to and across 100, forwards and backwards from any given number. Remember to practise counting backwards	I can count on in multiples of 2 to 100 Children should recognise odd and even numbers. Multiples of 2 are all even numbers. Also practise counting in 2s starting from different numbers; 3, 5, 7, 9,	I can count on in multiples of 5 to 100 Starting from 0, children should recognise that multiples of 5 end in 0 and 5. Ask children to look for the patterns.	I can count on in multiples of 10 to 100 Starting from 0, children should recognise that multiples of 10 end in 0. Ask children to count forwards and backwards, what number comes next?
Indigo	Violent	Black	Bronze	Silver	Gold
I can partition all numbers to 10 in several ways. 5 = 4 + 1, 5 + 0, 3 + 2 7 = 6 + 1 5 + 2 4 + 3 3 + 4 etc.	I know and use number bonds to 10 1 + 9 = 10 2 + 8 = 10 etc. $10 - 8 = 2$ $10 - 9 = 1$ $6 + \lozenge = 10$ $10 - \lozenge = 4$	I can partition all numbers to 20 in several ways 16 = 10 + 6 12 + 4, 15 + 1	I know and use number bonds to 20 16 + 4 = 20 $13 + 7 = 20$ $18 + 2 = 20$ $20 - 18 = 2$ $20 - 16 = 4$ $16 + 4 = 20$ $20 - 4 = 15$	I can find one more or less than a given number to 100 73 + 1 = 73 - 1 = Remember to also use words such as plus, minus and subtract; 73 minus 1, 65 take away 1, 72 plus 1 12 add 1, 12 plus 1 1 more than 13	I can solve addition and subtraction calculations within 20 7 + 5 = 13 + 4 = 17 - 6 =