Mathematics Non-Negotiables

Year 2

Non-negotiables are the minimum expectations that all pupils must attain by the end of year.

These prompt sheets have been designed to assist teachers with planning/assessment and as an ideal support tool for parent's evenings/progress meetings etc.

The content identifies basics to ensure children make rapid progress and access learning in other areas, as well as securing success in terms of preparing children for the next stages in their learning.

Written with age appropriate expectations in mind, they:

- focus on the basics; making a difference to progress for all children
- support teachers in recognising key areas to promote progress
- are based on the average pupil in the cohort, supporting the need for differentiation.

Non-negotiables are in no way intended to cover the entirety of the curriculum – they are an on-going reminder of key objectives for the year group. They are the basics in order to embed and support meaningful learning.

Content:
Mathematics Non-negotiables End of Year Expectations for Year 2 followed by an activity booklet containing example questions.

Did you like this resource? Don't forget to review it here.

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Mathematics Non-Negotiables

End of Year Expectations for Year 2

- Compare and order numbers up to 100 and use < > =
- Read and write all numbers to 100 in digits & words
- Say 10 more/less than any number to 100
- Count in steps of 2, 3 & 5 from zero and in 10s from any number (forwards and backwards)
- Recall and use multiplication & division facts for 2, 5 & 10 tables
- Recall and use +/- facts to 20
- Derive and use related facts to 100
- Recognise place value of any 2-digit number
- Add & subtract: 2-digit numbers & ones
  2-digit numbers & tens
  two 2-digit numbers
  three 1-digit numbers
- Recognise and use inverse (+/-)
- Calculate and write multiplication & division calculations using multiplication tables
- Recognise, find, name and write 1/3; 1/4; 2/4; 3/4
- Write and recognise equivalence of simple fractions
- Tell time to five minutes, including quarter past/to

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- Compare and order numbers up to 100 and use < > =

Order the numbers from smallest to largest.

80	20	99	5	36	47	52	79	2

Add the symbol to show whether the second number is more or less than the first number.

10 ☐ 20

81 ☐ 82

22 ☐ 24

34 ☐ 12

67 ☐ 68

100 ☐ 99

- Read and write all numbers to 100 in digits and words

Fill in the table with the missing digits or words

words	digits
twelve	
	61
ninety-six	
	37
one hundred	

words	digits
	23
fifty-four	
seventy	
	85
	99

- Say 10 more/less than any number to 100

Fill in the table to show 10 less and 10 more than the given number.

10 less than		10 more than
	57	
	13	
	78	
	26	
	89	

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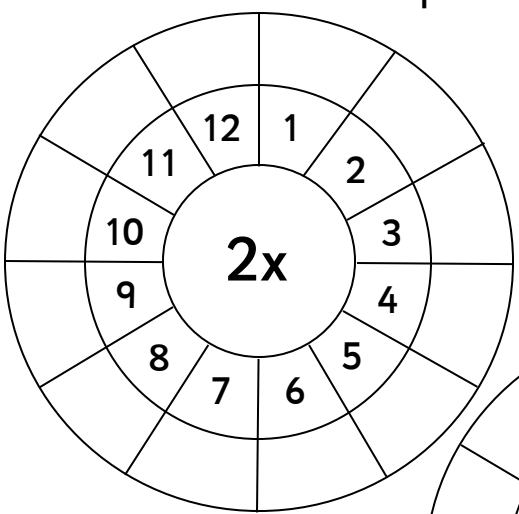
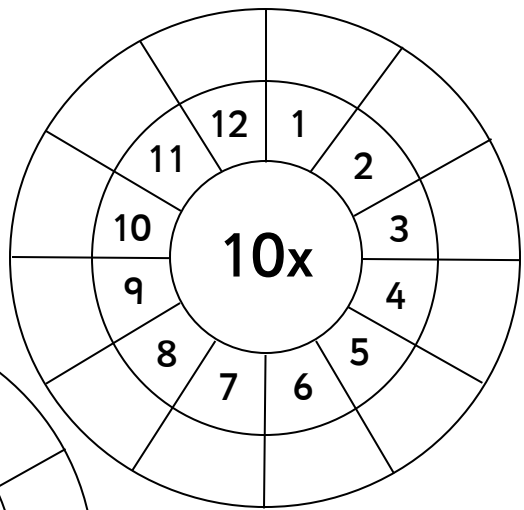
- Count in steps of 2, 3 & 5 from zero and in 10s from any number (forwards and backwards)

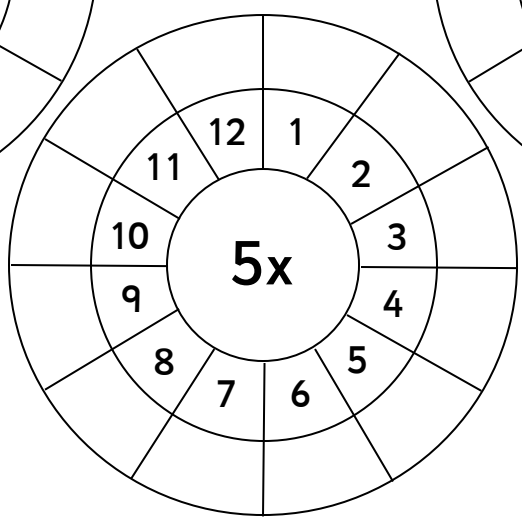
Start at zero and count in twos	Start at zero and count in threes	Start at zero and count in fives

Start at 21 and count forwards in tens	Start at 86 and count backwards in tens	Start at 44 and count forwards in tens

- Recall and use multiplication & division facts for 2, 5 & 10 tables







- Recall and use +/– facts to 20

3 + ☐ = 20

10 – 4 = ☐

☐ + 18 = 20

20 – ☐ = 13

3 + ☐ = 10

10 – 7 = ☐

18 – 8 = ☐

12 + ☐ = 20

☐ + 4 = 14

☐ – 9 = 10

11 + ☐ = 20

10 + 7 = ☐

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- Derive and use related facts to 100

2 + 8 = ☐	20 + 80 = ☐
10 – 7 = ☐	100 – 70 = ☐
6 + 4 = ☐	60 + 40 = ☐
5 – 5 = ☐	50 – 50 = ☐
1 + 9 = ☐	10 + 90 = ☐
13 + 7 = ☐	13 + 77 = ☐

- Recognise place value of any 2-digit number

Write the digits to form the number

words	digits
five tens, three ones	
six tens, two ones	
nine tens, eight ones	
seven tens, nine ones	
ten tens, no ones	

Write the place value words that form the given number

words	digits
	85
	27
	66
	19
	38

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- Add & subtract:

➢ 2-digit numbers & ones

15 + 3 =	23 – 1 =	3 + 25 =
45 – 4 =	62 + 7 =	20 – 9 =
81 + 5 =	95 – 3 =	47 + 2 =
100 – 5 =	2 + 35 =	58 – 4 =

➢ 2-digit numbers & tens

65 + 30 =	35 – 10 =	32 + 20 =
17 – 10 =	78 + 20 =	53 – 30 =
26 + 70 =	84 – 40 =	51 + 40 =
90 – 60 =	14 + 80 =	99 – 40 =

➢ two 2-digit numbers

12 + 41 =	68 – 32 =	27 + 22 =
53 – 41 =	42 + 22 =	76 – 36 =
72 + 15 =	29 – 11 =	53 + 36 =
88 – 26 =	35 + 34 =	84 – 43 =

➢ three 1-digit numbers

3 + 5 + 2 =	6 + 6 + 4 =	4 + 1 + 3 =
9 + 1 + 1 =	1 + 3 + 3 =	9 + 8 + 7 =
6 + 2 + 8 =	8 + 4 + 2 =	4 + 7 + 2 =
3 + 7 + 3 =	5 + 5 + 7 =	1 + 5 + 2 =

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- Recognise and use inverse (+/–)

Use the numbers to make four different number sentences

Use the number 7, 3 and 10

3 + ☐ = 10

10 – 7 = ☐

10 – 3 = ☐

7 + ☐ = 10

Use the number 4, 6 and 10

☐ + 6 = 10

☐ – 4 = 6

10 – ☐ = 6

6 + ☐ = 10

Use the number 1 and 9

☐ + ☐ = 10

10 – ☐ = ☐

10 – ☐ = ☐

☐ + ☐ = 10

- Calculate and write multiplication & division calculations using multiplication tables

8 x 2 = ☐	10 ÷ 2 = ☐	3 x 2 = ☐
14 ÷ 2 = ☐	9 x 2 = ☐	20 ÷ 2 = ☐
2 x 5 = ☐	15 ÷ 5 = ☐	7 x 5 = ☐
50 ÷ 5 = ☐	6 x 5 = ☐	35 ÷ 5 = ☐
1 x 10 = ☐	40 ÷ 10 = ☐	6 x 10 = ☐
90 ÷ 10 = ☐	4 x 10 = ☐	30 ÷ 10 = ☐

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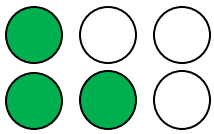
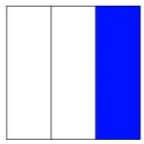
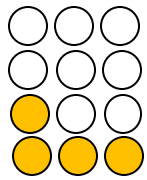
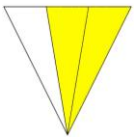
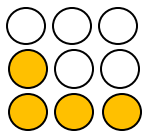
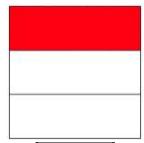
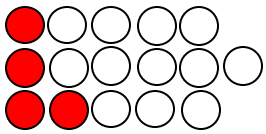
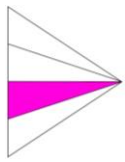
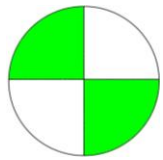
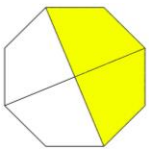
- Recognise, find, name and write 1/3; 1/4; 2/4; 3/4

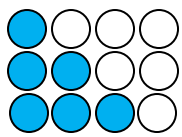
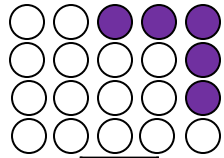
Tick any that are 1/3



5 = 1/3 of 6


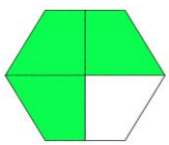
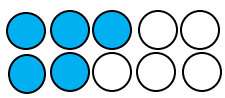

3 = 1/3 of 9


9 = 1/3 of 18

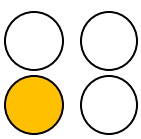
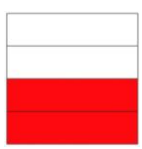
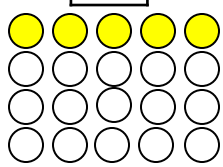
Tick any that are 1/4


10 = 1/4 of 20


3 = 1/4 of 12


10 = 1/4 of 40



Tick any that are 2/4

40 = 2/4 of 80


2 = 2/4 of 4


50 = 2/4 of 100



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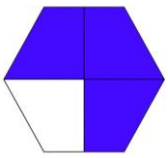
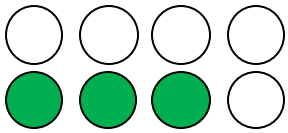
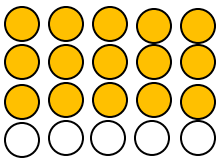
Tick any that are 3/4

3 = 3/4 of 4

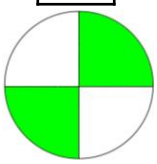


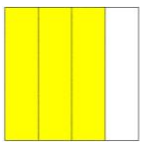


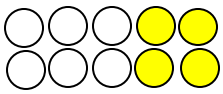
20 = 3/4 of 40



6 = 3/4 of 12

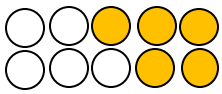


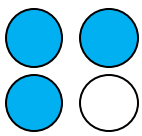




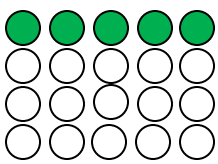
Write the fraction shown

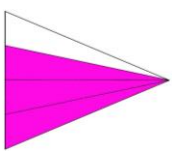
15 = ? of 20



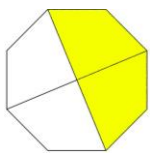


20 = ? of 40

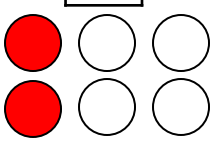




5 = ? of 15



4 = ? of 16



- Write and recognise equivalence of simple fractions

Tick which answer makes the statement true

1/2 is the same as

1/3 ☐ 2/4 ☐ 3/4 ☐

2/4 is the same as

1/3 ☐ 3/4 ☐ 1/2 ☐

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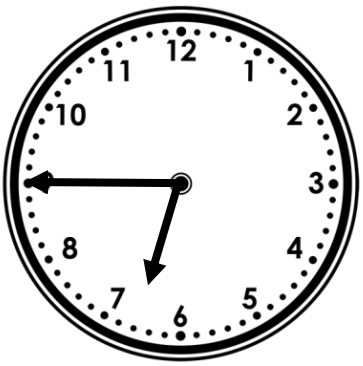
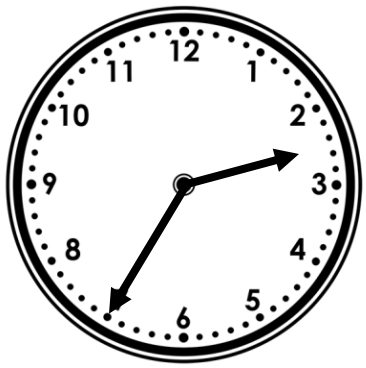
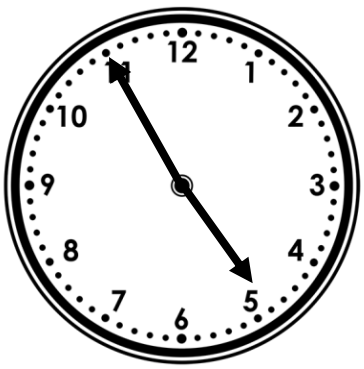
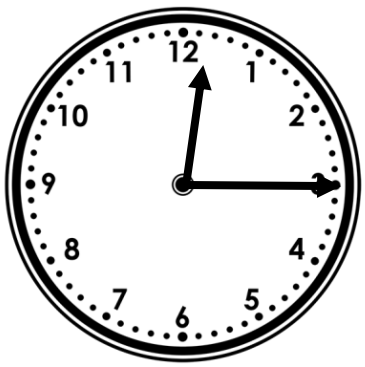
- Tell time to five minutes, including quarter past/to

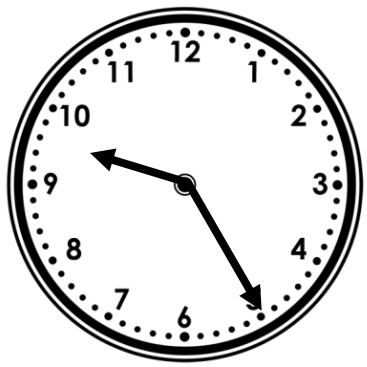
Write the time underneath the clocks:

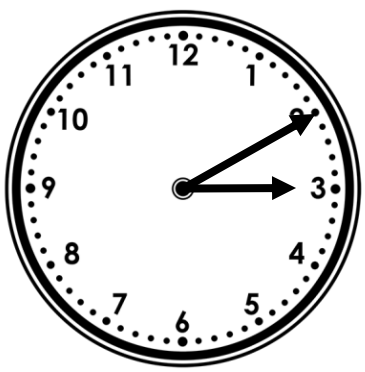


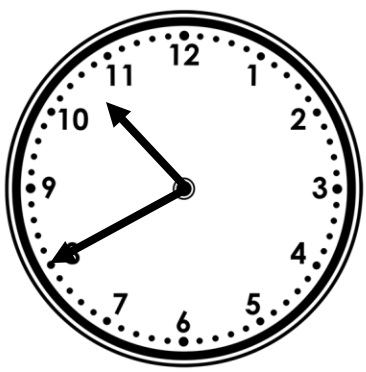


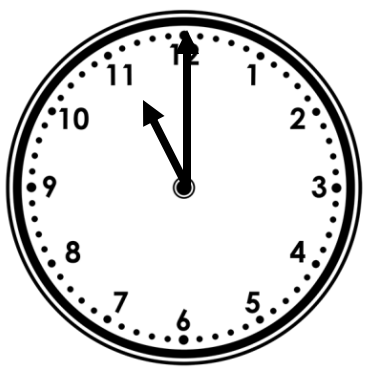












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- Compare and order numbers up to 100 and use < > =

Order the numbers from smallest to largest.

80	20	99	5	36	47	52	79	2
2	5	20	36	47	52	79	80	99

Add the symbol to show whether the second number is more or less than the first number.

10	<	20	34	>	12
81	<	82	67	<	68
22	<	24	100	>	99

- Read and write all numbers to 100 in digits and words

Fill in the table with the missing digits or words

words	digits
twelve	12
sixty-one	61
ninety-six	96
thirty-seven	37
one hundred	100

words	digits
twenty-three	23
fifty-four	54
seventy	70
eighty-five	85
ninety-nine	99

- Say 10 more/less than any number to 100

Fill in the table to show 10 less and 10 more than the given number.

10 less than		10 more than
47	57	67
3	13	23
68	78	88
16	26	36
79	89	99

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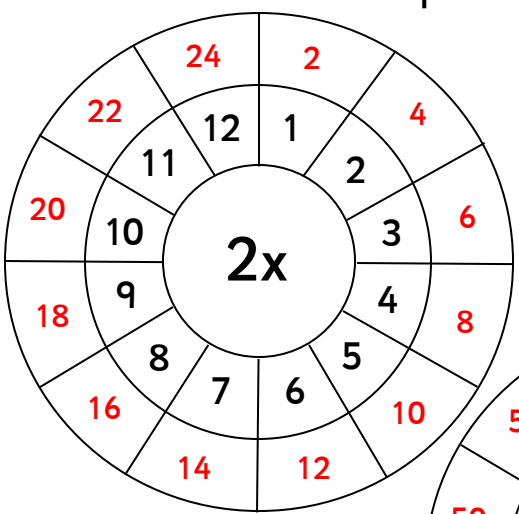
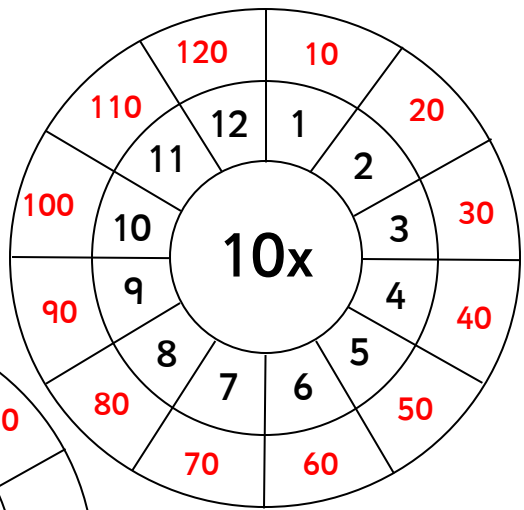
- Count in steps of 2, 3 & 5 from zero and in 10s from any number (forwards and backwards)

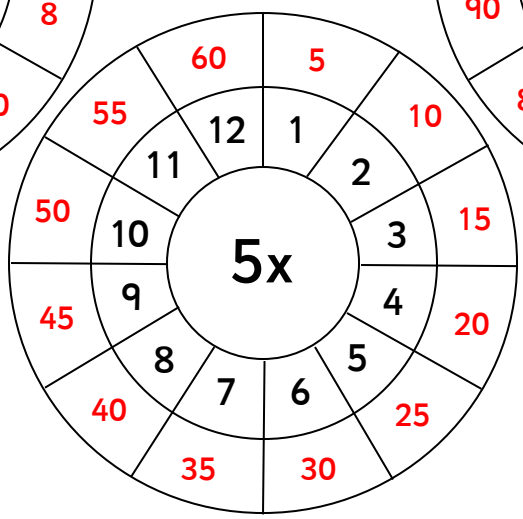
Start at zero and count in twos	Start at zero and count in threes	Start at zero and count in fives

Start at 21 and count forwards in tens	Start at 86 and count backwards in tens	Start at 44 and count forwards in tens

- Recall and use multiplication & division facts for 2, 5 & 10 tables







- Recall and use +/– facts to 20

3	+	17	=	20	18	–	8	=	10
10	–	4	=	6	12	+	8	=	20
2	+	18	=	20	10	+	4	=	14
20	–	7	=	13	19	–	9	=	10
3	+	7	=	10	11	+	9	=	20
10	–	7	=	3	10	+	7	=	17

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- Derive and use related facts to 100

2 + 8 =	10	20 + 80 =	100
10 – 7 =	3	100 – 70 =	30
6 + 4 =	10	60 + 40 =	100
5 – 5 =	0	50 – 50 =	0
1 + 9 =	10	10 + 90 =	100
3 + 7 =	10	3 + 77 =	80

- Recognise place value of any 2-digit number

Write the digits to form the number

words	digits
five tens, three ones	53
six tens, two ones	62
nine tens, eight ones	98
seven tens, nine ones	79
ten tens, no ones	100

Write the place value words that form the given number

words	digits
eight tens, five ones	85
two tens, seven ones	27
six tens, six ones	66
one ten, nine ones	19
three tens, eight ones	38

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- Add & subtract:

➢ 2-digit numbers & ones

15 + 3 = 18	23 – 1 = 22	3 + 25 = 28
45 – 4 = 41	62 + 7 = 69	20 – 9 = 11
81 + 5 = 86	95 – 3 = 92	47 + 2 = 49
100 – 5 = 95	2 + 35 = 37	58 – 4 = 54

➢ 2-digit numbers & tens

65 + 30 = 95	35 – 10 = 25	32 + 20 = 52
17 – 10 = 7	78 + 20 = 98	53 – 30 = 23
26 + 70 = 96	84 – 40 = 44	51 + 40 = 91
90 – 60 = 30	14 + 80 = 94	99 – 40 = 59

➢ two 2-digit numbers

12 + 41 = 53	68 – 32 = 36	27 + 22 = 49
53 – 41 = 12	42 + 22 = 64	76 – 36 = 40
72 + 15 = 87	29 – 11 = 18	53 + 36 = 89
88 – 26 = 62	35 + 34 = 69	84 – 43 = 41

➢ three 1-digit numbers

3 + 5 + 2 = 10	6 + 6 + 4 = 16	4 + 1 + 3 = 8
9 + 1 + 1 = 11	1 + 3 + 3 = 7	9 + 8 + 7 = 24
6 + 2 + 8 = 16	8 + 4 + 2 = 14	4 + 7 + 2 = 13
3 + 7 + 3 = 13	5 + 5 + 7 = 17	1 + 5 + 2 = 8

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- Recognise and use inverse (+/–)

Use the numbers to make four different number sentences

Use the number 7, 3 and 10

3 + 7 = 10 | 10 – 7 = 3

10 – 3 = 7 | 7 + 3 = 10

Use the number 4, 6 and 10

4 + 6 = 10 | 10 – 4 = 6

10 – 4 = 6 | 6 + 4 = 10

Use the number 1 and 9

1 + 9 = 10 | 10 – 1 = 9

10 – 9 = 1 | 9 + 1 = 10

- Calculate and write multiplication & division calculations using multiplication tables

8 x 2 = 16	10 ÷ 2 = 5	3 x 2 = 6
14 ÷ 2 = 7	9 x 2 = 18	20 ÷ 2 = 10
2 x 5 = 10	15 ÷ 5 = 3	7 x 5 = 35
50 ÷ 5 = 10	6 x 5 = 30	35 ÷ 5 = 7
1 x 10 = 10	40 ÷ 10 = 4	6 x 10 = 60
90 ÷ 10 = 9	4 x 10 = 40	30 ÷ 10 = 3

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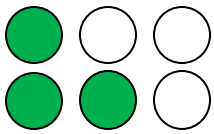
- Recognise, find, name and write 1/3; 1/4; 2/4; 3/4

Tick any that are 1/3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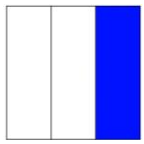
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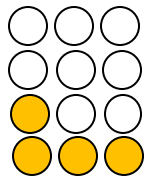
5 = 1/3 of 6
☐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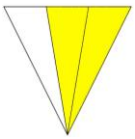
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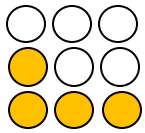
3 = 1/3 of 9
✓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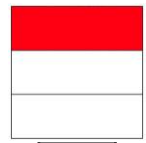
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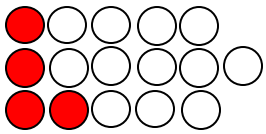
9 = 1/3 of 18
☐

Tick any that are 1/4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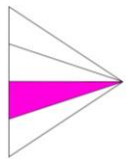
10 = 1/4 of 20
☐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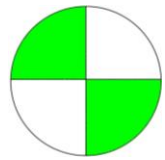
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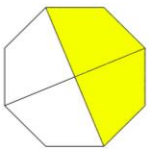
3 = 1/4 of 12
✓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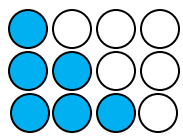
✓

10 = 1/4 of 40
✓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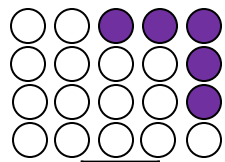
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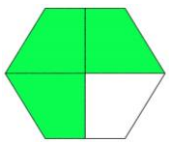
Tick any that are 2/4

40 = 2/4 of 80
✓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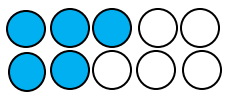
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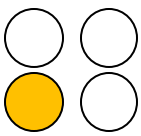
2 = 2/4 of 4
✓

☐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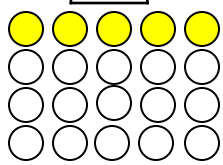
50 = 2/4 of 100
✓

✓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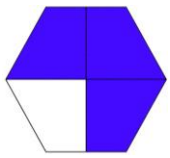
Tick any that are 3/4

3 = 3/4 of 4 ✓



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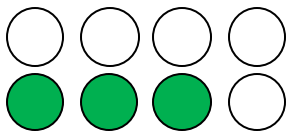
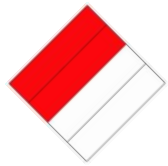
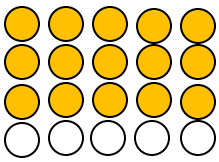


20 = 3/4 of 40





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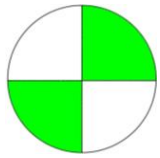
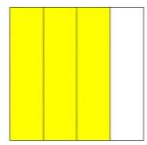
6 = 3/4 of 12





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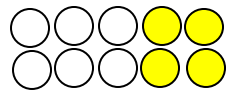
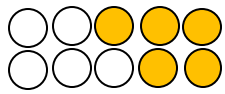


Write the fraction shown

1/3

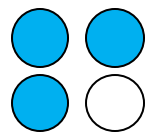
15 = ? of 20

3/4



1/2 2/4

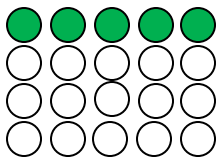
1/4



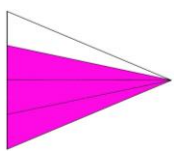
3/4

20 = ? of 40

1/2 2/4



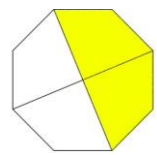
1/4



3/4

5 = ? of 15

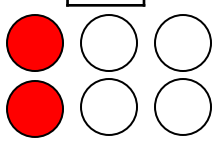
1/3



2/4 1/2

4 = ? of 16

1/4



1/3

- Write and recognise equivalence of simple fractions

Tick which answer makes the statement true

1/2 is the same as	1/3 ☐	2/4 ✓	3/4 ☐
2/4 is the same as	1/3 ☐	3/4 ☐	1/2 ✓

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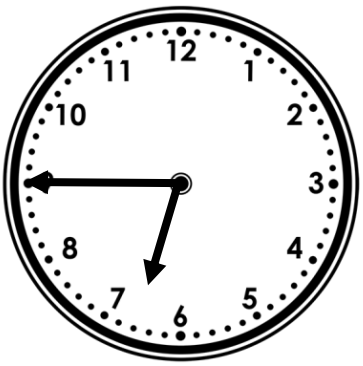
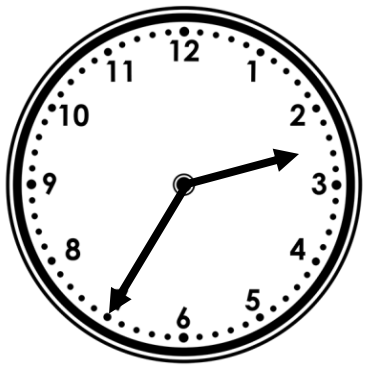
- Tell time to five minutes, including quarter past/to

Write the time underneath the clocks:

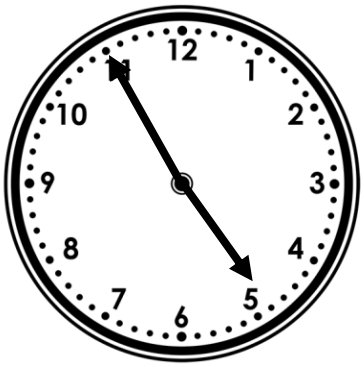


quarter to seven

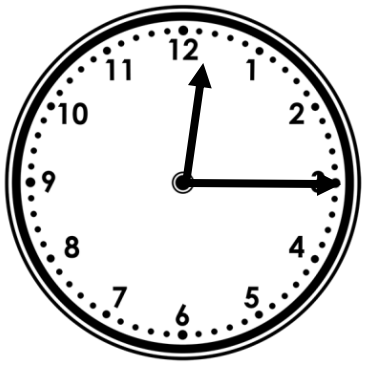


Twenty-five to three

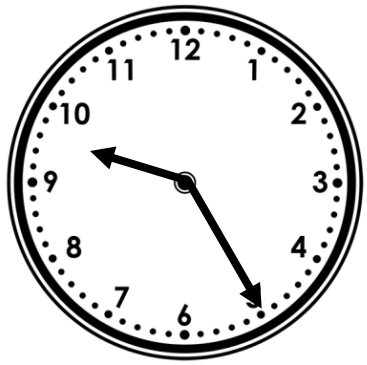
ten past ten



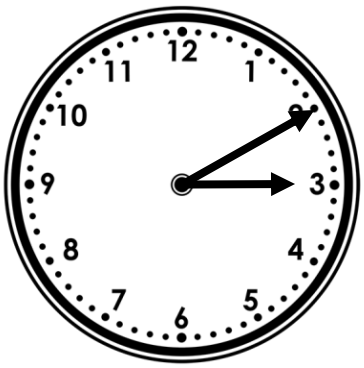
five to five



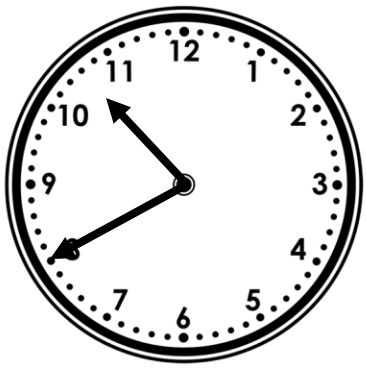
quarter past twelve



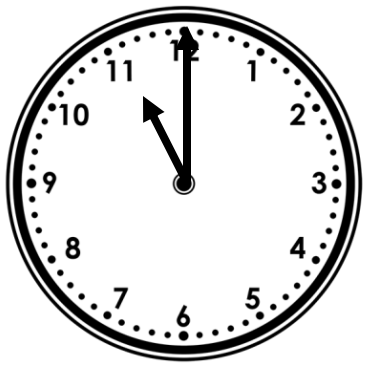
twenty-five past nine



ten past three



twenty to eleven



eleven o'clock

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