

# Mathematics Non-Negotiables

## Year 4

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 4 followed by an activity booklet containing example questions.

Did you like this resource? Don't forget to review it [here](#).

## Mathematics Non-Negotiables

### End of Year Expectations for Year 4

- Count backwards through zero to include negative numbers
- Compare and order numbers beyond 1,000
- Compare and order numbers with up to 2 decimal places
- Read Roman numerals to 100
- Find 1,000 more or less than a given number
- Count in multiples of 6, 7, 9, 25 and 1000
- Recall and use multiplication and division facts for all tables to 12x12
- Recognise place value of any 4-digit number
- Round any number to the nearest 10, 100 or 1,000
- Round decimals with 1 decimal-place to nearest whole number
- Add and subtract numbers with up to 4-digits using written columnar method
- Multiply 2-digit and 3-digit numbers by 1-digit numbers
- Count up and down in hundredths
- Recognise and write equivalent fractions
- Add and subtract fractions with same denominator
- Read, write and convert time between analogue and digital 12 and 24 hour clocks

## Year 4

- Count backwards through zero to include negative numbers

Start at five and count backwards to minus ten	Start at ten and count backwards to minus three	Start at seven and count backwards to minus four	Start at three and count backwards to minus twenty
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- Compare and order numbers beyond 1,000

Order the numbers from smallest to largest.

8,735	1,021	9,861	5,002	4,684	289	2,467
<input style="width: 50px; height: 30px;" type="text"/>	<input style="width: 50px; height: 30px;" type="text"/>	<input style="width: 50px; height: 30px;" type="text"/>	<input style="width: 50px; height: 30px;" type="text"/>	<input style="width: 50px; height: 30px;" type="text"/>	<input style="width: 50px; height: 30px;" type="text"/>	<input style="width: 50px; height: 30px;" type="text"/>

- Compare and order numbers with up to 2 decimal places

Order the numbers from smallest to largest.

6.25	3.97	3.05	6.29	9.86	2.77	3.64
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- Read Roman numerals to 100

Fill in the hundred square using Roman Numerals									
I		III		V			VIII		X
	XII							XIX	
				XXV					XXX
XXXI						XXXVII			
XLI			XLIV					XLIX	L
									LX
	LXII				LXVI				
		LXXIII				LXXVII			
				LXXXV					XC
			XCIV				XCVIII		

## Year 4

- Find 1,000 more or less than a given number

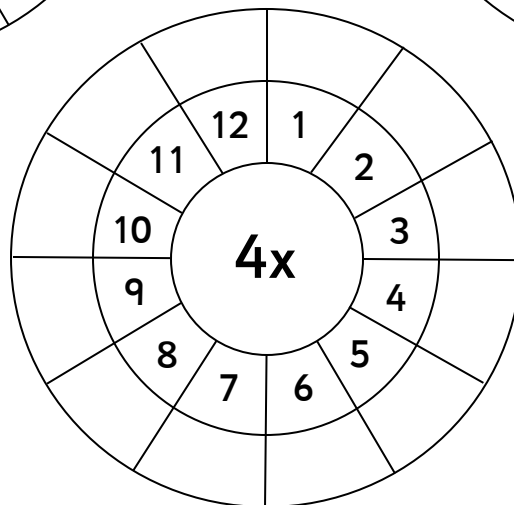
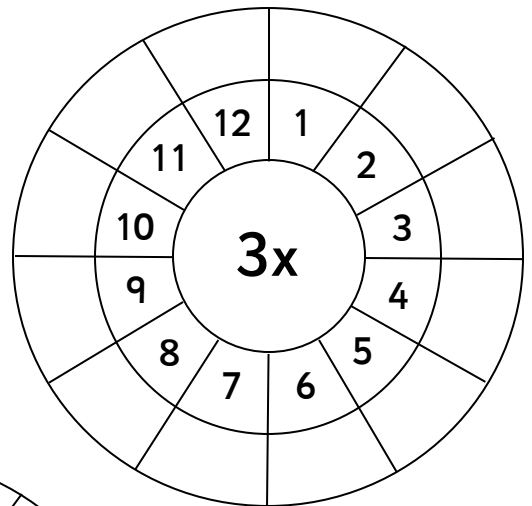
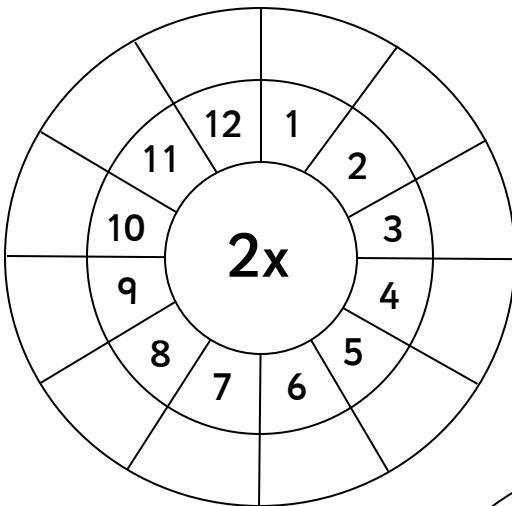
Fill in the table to show 1,000 less and 1,000 more than the given number.

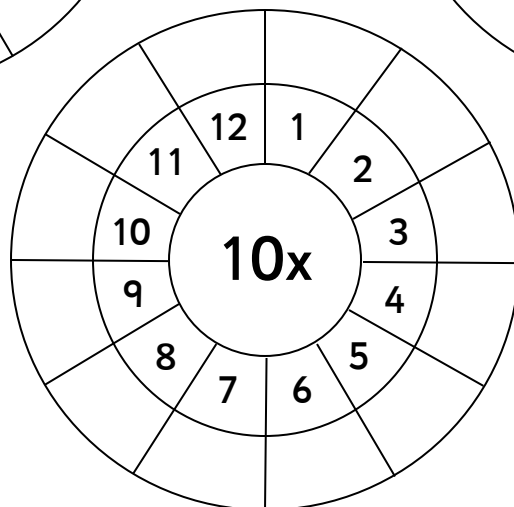
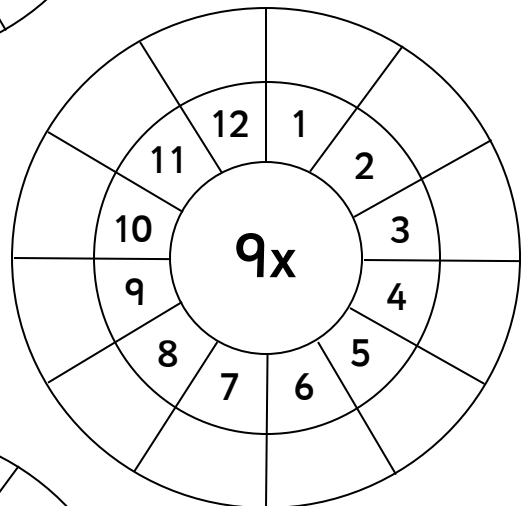
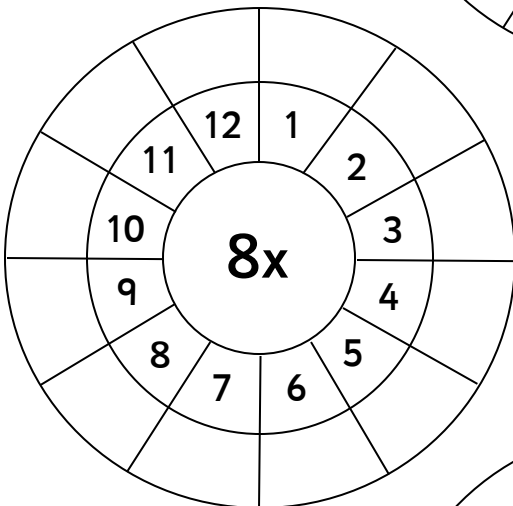
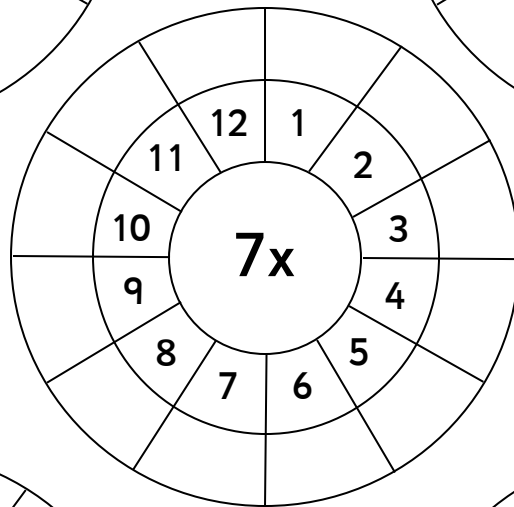
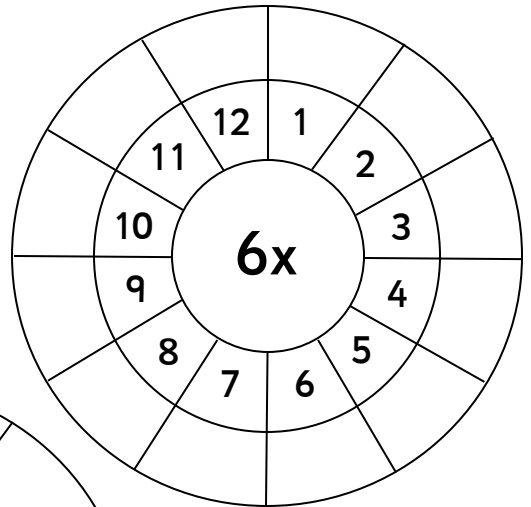
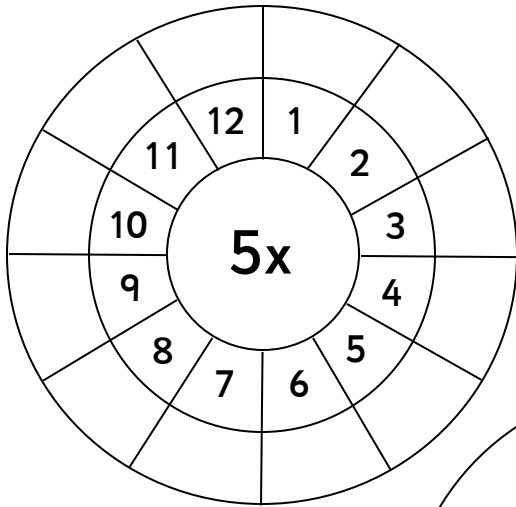
1,000 less than		1,000 more than
	7,341	
	2,972	
	7,559	
	1,383	

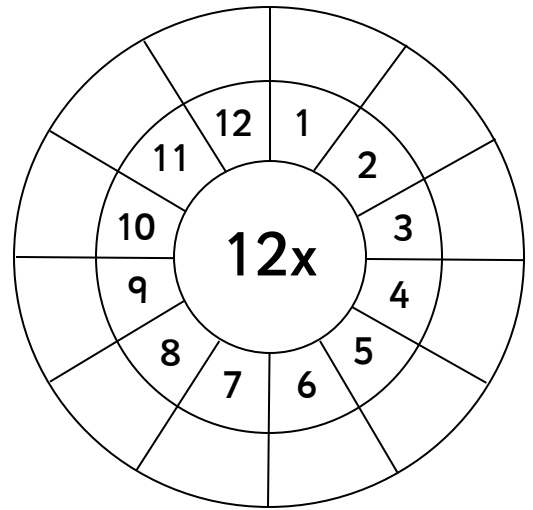
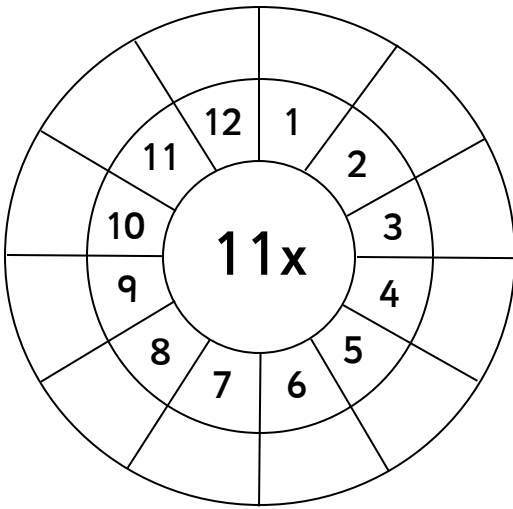
- Count in multiples of 6, 7, 9, 25 and 1000

Start at six and count in sixes	start at seven and count in sevens	start at nine and count in nines	start at twenty-five and count in twenty-fives	start at zero and count in thousands
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- Recall and use multiplication and division facts for all tables to 12x12







- Recognise place value of any 4-digit number

Write the digits to form the number

words	digits
two thousands, five hundreds, two tens and four ones	<input type="text"/>
eight thousands, seven hundreds, no tens and five ones	<input type="text"/>
four thousands, two hundreds, three tens and no ones	<input type="text"/>
nine thousands, three hundreds, three tens and three ones	<input type="text"/>
seven thousands, eight hundreds, six tens and one one	<input type="text"/>

Write the place value words that form the given number

words	digits
<input type="text"/>	5,678
<input type="text"/>	1,204
<input type="text"/>	8,631
<input type="text"/>	6,888
<input type="text"/>	2,030

## Year 4

- Round any number to the nearest 10, 100 or 1,000

Complete the table:

	nearest 10	nearest 100	nearest 1,000
9,864			
5,237			
4,565			
1,002			

- Round decimals with 1 decimal-place to nearest whole number

Round the numbers to the nearest whole number

1.6	9.4	25.1	93.7	0.9	7.5	3.4
<input style="width: 50px; height: 30px;" type="text"/>	<input style="width: 50px; height: 30px;" type="text"/>	<input style="width: 50px; height: 30px;" type="text"/>	<input style="width: 50px; height: 30px;" type="text"/>	<input style="width: 50px; height: 30px;" type="text"/>	<input style="width: 50px; height: 30px;" type="text"/>	<input style="width: 50px; height: 30px;" type="text"/>

- Add and subtract numbers with up to 4-digits using written columnar method

Complete the column method addition questions

	5	3	4	1
+	2	4	5	3

	7	7	6	2
+	1	0	0	4

	1	6	5	2
+	6	2	0	9

	8	7	7	5
+	1	3	3	4

	2	9	0	2
+	2	2	0	9

	6	0	4	3
+	3	1	2	7

Complete the column method subtraction questions

	9	5	6	7
-	4	2	3	4

	8	6	5	5
-	4	4	2	1

	1	8	6	7
-	1	5	4	1

Complete the column method subtraction questions

	7	3	2	4
-	3	1	1	5

	8	1	5	6
-	7	8	1	3

	5	0	0	4
-	1	5	4	3

- Multiply 2-digit and 3-digit numbers by 1-digit numbers  
Complete the column method multiplication questions

	2	3
x		5

	5	6
x		3

	7	4
x		2

	3	8
x		7

	9	7
x		6

Complete the column method multiplication questions

	2	8	4
x			4

	3	6	5
x			9

	5	7	2
x			5

	7	4	3
x			8

	9	5	9
x			3

- Count up and down in hundredths

3.0	3.01		3.03		3.05	3.06		3.08	3.09	3.10
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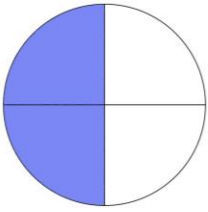
6.60		6.62		6.64		6.66	6.67		6.69	
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	4.46		4.48	4.49		4.51		4.53	4.54	
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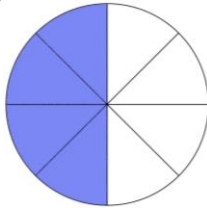


- Recognise and write equivalent fractions

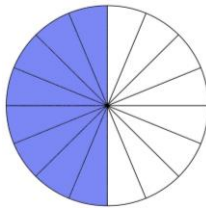
Write the equivalent fractions below each shape



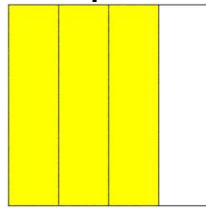
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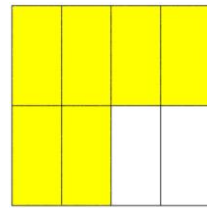
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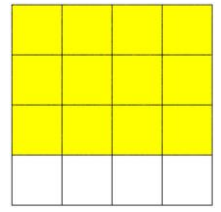
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- Add and subtract fractions with same denominator

$$\frac{12}{33} + \frac{27}{33} =$$

$$\frac{17}{12} - \frac{9}{12} =$$

$$\frac{52}{75} + \frac{37}{75} =$$

$$\frac{74}{64} - \frac{37}{64} =$$

$$\frac{6}{24} + \frac{14}{24} =$$

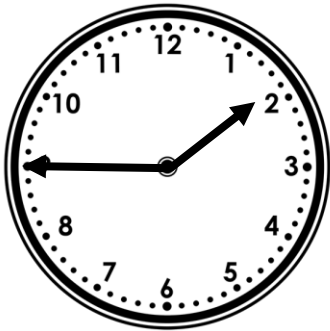
$$\frac{17}{18} - \frac{13}{18} =$$

$$\frac{36}{99} + \frac{36}{99} =$$

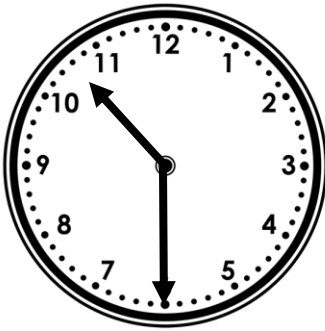
$$\frac{31}{52} - \frac{26}{52} =$$

$$\frac{41}{87} + \frac{42}{87} =$$

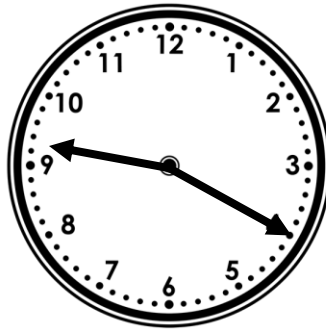
- Read, write and convert time between analogue and digital 12 and 24 hour clocks



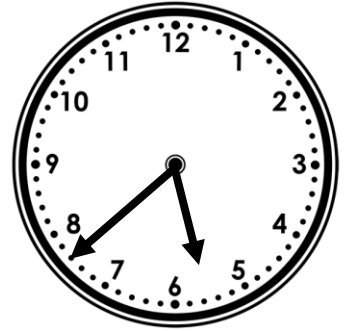
in the afternoon	
12 hour	:
24 hour	:



in the morning	
12 hour	:
24 hour	:



in the morning	
12 hour	:
24 hour	:



in the afternoon	
12 hour	:
24 hour	:

## Year 4

- Count backwards through zero to include negative numbers

Start at five and count backwards to minus ten	Start at ten and count backwards to minus three	Start at seven and count backwards to minus four	Start at three and count backwards to minus twenty
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- Compare and order numbers beyond 1,000

Order the numbers from smallest to largest.

8,735

1,021

9,861

5,002

4,684

289

2,467

289

1,021

2,467

4,684

5,002

8,735

9,861

- Compare and order numbers with up to 2 decimal places

Order the numbers from smallest to largest.

6.25

3.97

3.05

6.29

9.86

2.77

3.64

2.77

3.05

3.64

3.97

6.25

6.29

9.86

- Read Roman numerals to 100

Fill in the hundred square using Roman Numerals

I	II	III	IV	V	VI	VII	VIII	IX	X
XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX
XXI	XXII	XXIII	XXIV	XXV	XXVI	XXVII	XXVIII	XXIX	XXX
XXXI	XXXII	XXXIII	XXXIV	XXXV	XXXVI	XXXVII	XXXVIII	XXXIX	XL
XLI	XLII	XLIII	XLIV	XLV	XLVI	XLVII	XLVIII	XLIX	L
LI	LII	LIII	LIV	LV	LVI	LVII	LVIII	LIX	LX
LXI	LXII	LXIII	LXIV	LXV	LXVI	LXVII	LXVIII	LXIX	LXX
LXXI	LXXII	LXXIII	LXXIV	LXXV	LXXVI	LXXVII	LXXVIII	LXXIX	LXXX
LXXXI	LXXXII	LXXXIII	LXXXIV	LXXXV	LXXXVI	LXXXVII	LXXXVIII	LXXXIX	XC
XCI	XCII	XCIII	XCIV	XCV	XCVI	XCVII	XCVIII	XCIX	C

## Year 4

- Find 1,000 more or less than a given number

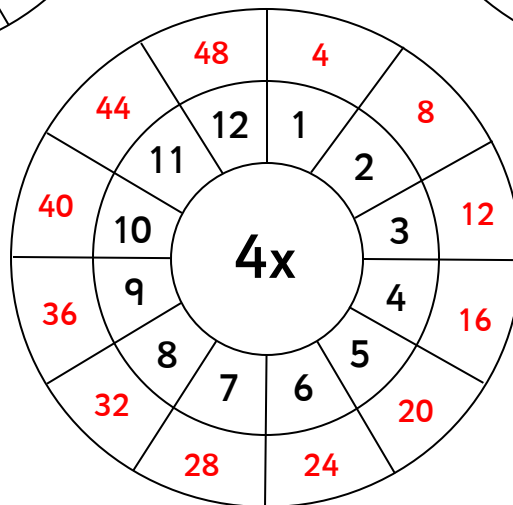
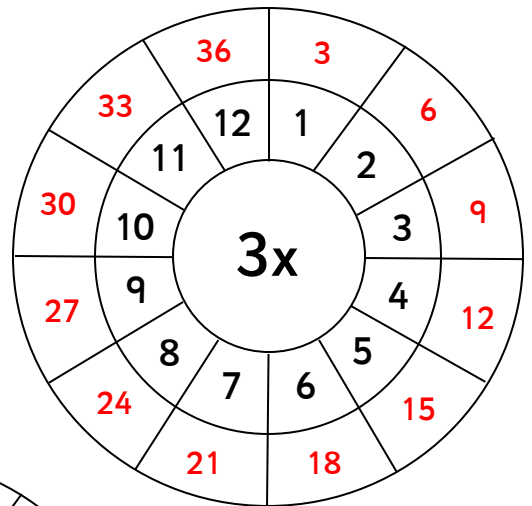
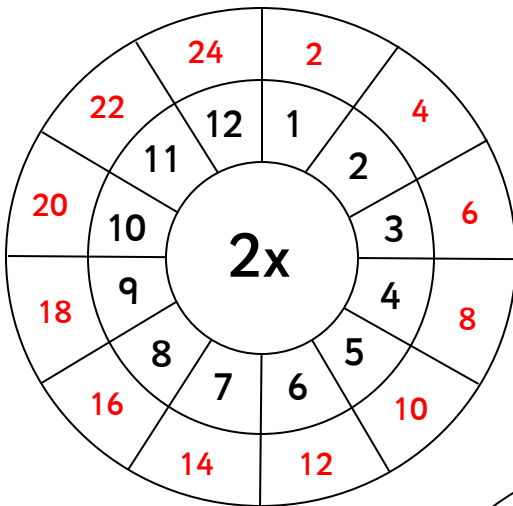
Fill in the table to show 1,000 less and 1,000 more than the given number.

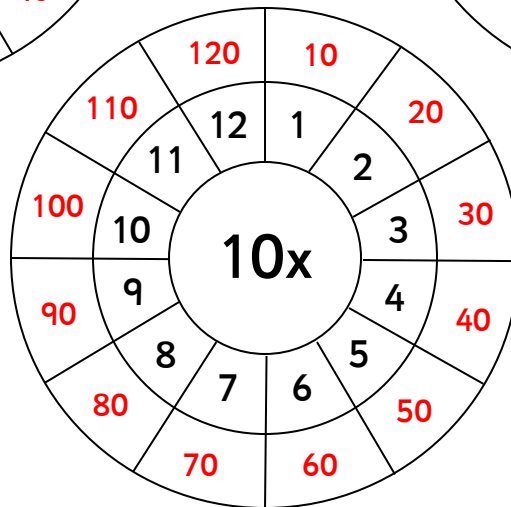
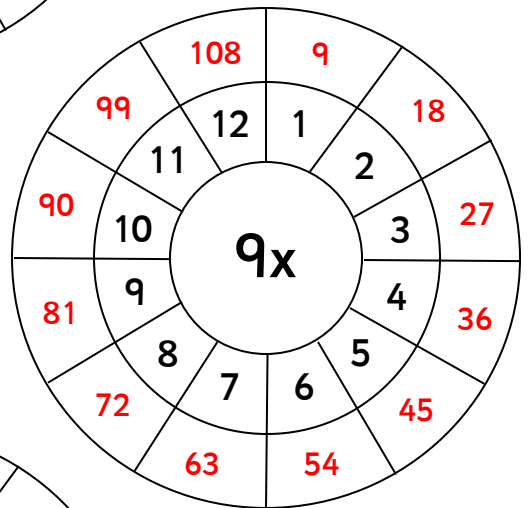
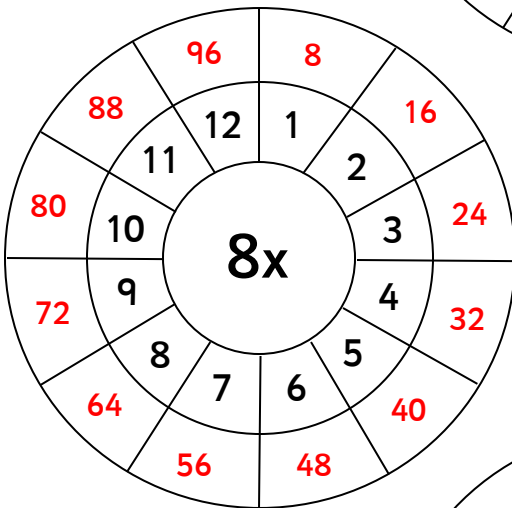
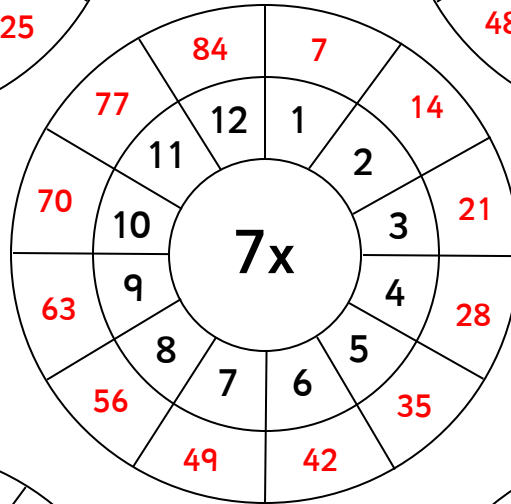
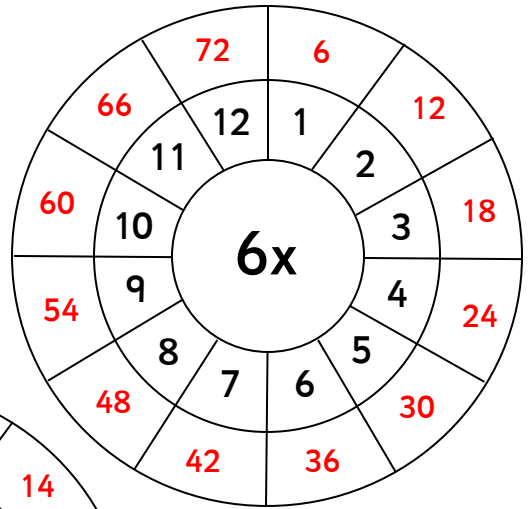
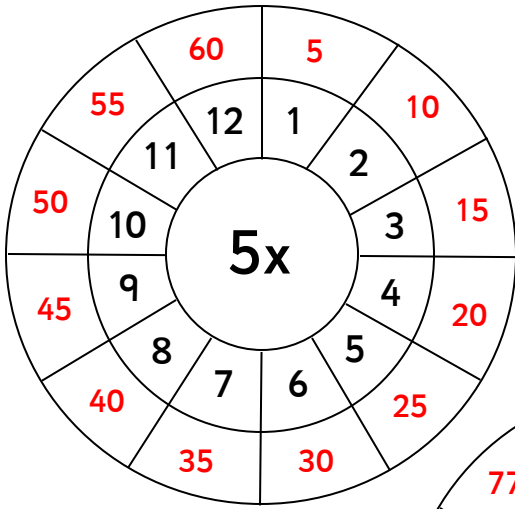
1,000 less than		1,000 more than
6,341	7,341	8,341
1,972	2,972	3,972
6,559	7,559	8,559
383	1,383	2,383

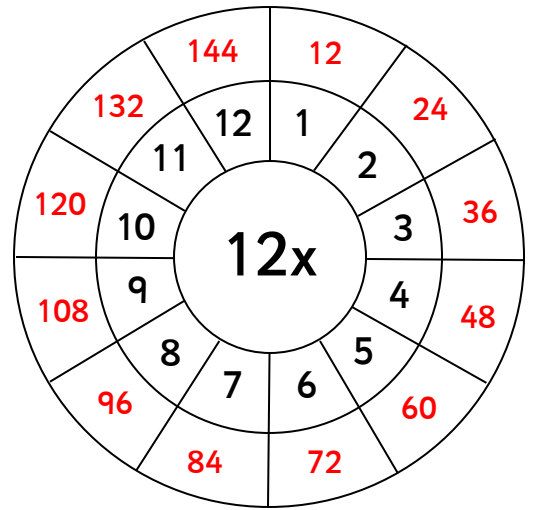
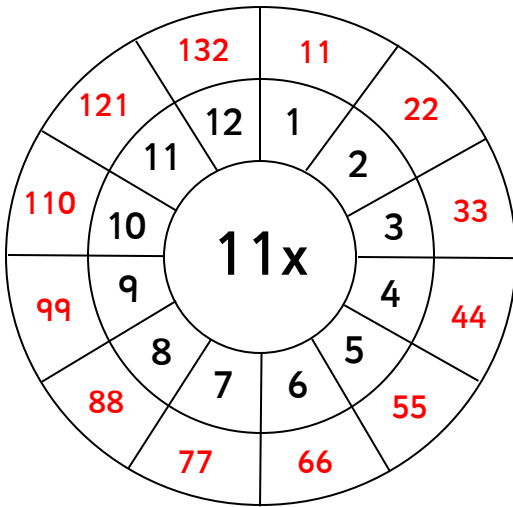
- Count in multiples of 6, 7, 9, 25 and 1000

Start at six and count in sixes	start at seven and count in sevens	start at nine and count in nines	start at twenty-five and count in twenty-fives	start at zero and count in thousands
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- Recall and use multiplication and division facts for all tables to 12x12







- Recognise place value of any 4-digit number

Write the digits to form the number

words	digits
two thousands, five hundreds, two tens and four ones	2,524
eight thousands, seven hundreds, no tens and five ones	8,705
four thousands, two hundreds, three tens and no ones	4,230
nine thousands, three hundreds, three tens and three ones	9,333
seven thousands, eight hundreds, six tens and one one	7,861

Write the place value words that form the given number

words	digits
five thousand, six hundred and seventy-eight	5,678
one thousand, two hundred and four	1,204
eight thousand, six hundred and thirty-one	8,631
six thousand, eight hundred and eighty-eight	6,888
two thousand and thirty	2,030

## Year 4

- Round any number to the nearest 10, 100 or 1,000

Complete the table:

	nearest 10	nearest 100	nearest 1,000
9,864	9,860	9,900	10,000
5,237	5,240	5,200	5,000
4,565	4,570	4,600	5,000
1,002	1,000	1,000	1,000

- Round decimals with 1 decimal-place to nearest whole number

Round the numbers to the nearest whole number

1.6	9.4	25.1	93.7	0.9	7.5	3.4
2	9	25	94	1	8	3

- Add and subtract numbers with up to 4-digits using written columnar method

Complete the column method addition questions

	5	3	4	1
+	2	4	5	3
	7	7	9	4

	7	7	6	2
+	1	0	0	4
	8	7	6	6

	1	6	5	2
+	6	2	0	9
	7	8	6	1

	8	7	7	5
+	1	3	3	4
	1	0	1	0
	9			

	2	9	0	2
+	2	2	0	9
	5	1	1	1

	6	0	4	3
+	3	1	2	7
	9	1	7	0

Complete the column method subtraction questions

	9	5	6	7
-	4	2	3	4
	5	3	3	3

	8	6	5	5
-	4	4	2	1
	4	2	3	4

	1	8	6	7
-	1	5	4	1
	0	3	2	6

Complete the column method subtraction questions

	7	3	<sup>1</sup> <del>2</del>	<sup>1</sup> 4
-	3	1	1	5
	4	2	0	9

	<sup>7</sup> <del>8</del>	<sup>1</sup> 1	5	6
-	7	8	1	3
	0	3	4	3

	<sup>4</sup> <del>5</del>	<sup>9</sup> <del>0</del>	<sup>1</sup> 0	4
-	1	5	4	3
	3	4	6	1

- Multiply 2-digit and 3-digit numbers by 1-digit numbers  
Complete the column method multiplication questions

	2	3
x	<sup>1</sup>	5
	1	5

	5	6
x	<sup>1</sup>	3
	1	8

	7	4
x		2
	1	8

	3	8
x	<sup>5</sup>	7
	2	6

	9	7
x	<sup>4</sup>	6
	5	2

Complete the column method multiplication questions

	2	8	4
x	<sup>3</sup>	<sup>1</sup>	4
	1	1	6

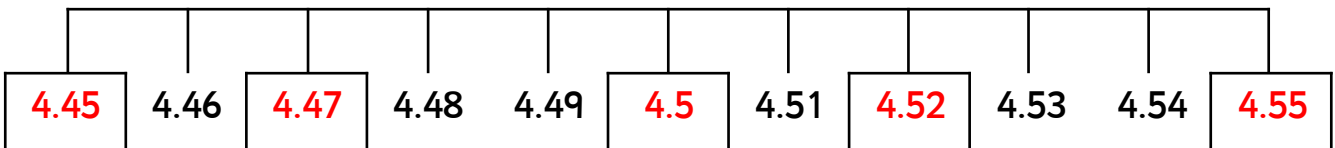
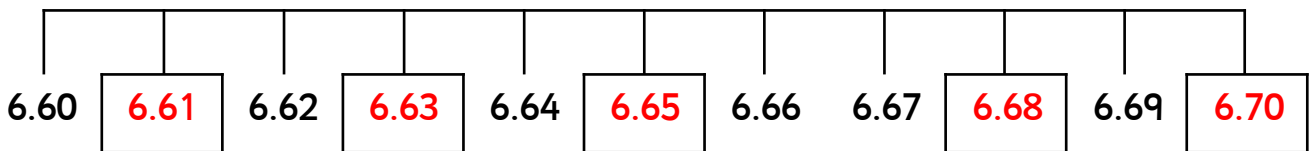
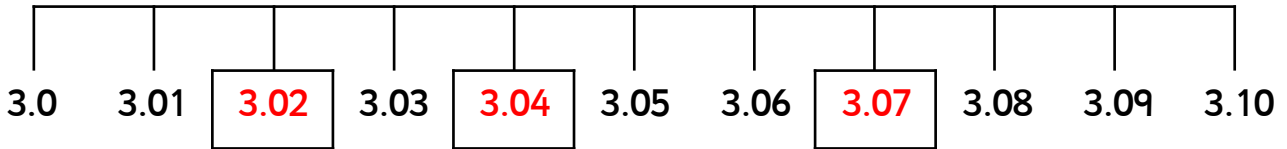
	3	6	5
x	<sup>5</sup>	<sup>4</sup>	9
	3	2	5

	5	7	2
x	<sup>3</sup>	<sup>1</sup>	5
	2	8	0

	7	4	3
x	<sup>3</sup>	<sup>2</sup>	8
	5	9	4

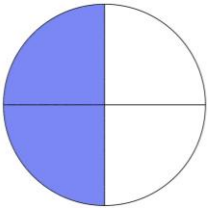
	9	5	9
x	<sup>1</sup>	<sup>2</sup>	3
	2	8	7

- Count up and down in hundredths

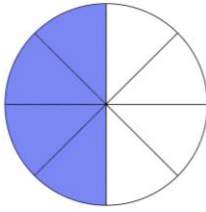


- Recognise and write equivalent fractions

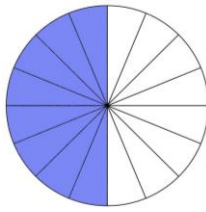
Write the equivalent fractions below each shape



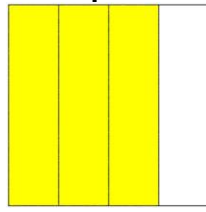
$$\frac{2}{4}$$



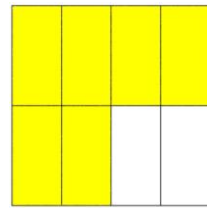
$$\frac{4}{8}$$



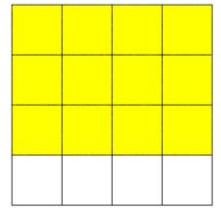
$$\frac{8}{16}$$



$$\frac{3}{4}$$



$$\frac{4}{6}$$



$$\frac{10}{12}$$

- Add and subtract fractions with same denominator

$$\frac{12}{33} + \frac{27}{33} = \frac{39}{33}$$

$$\frac{17}{12} - \frac{9}{12} = \frac{8}{12}$$

$$\frac{52}{75} + \frac{37}{75} = \frac{89}{75}$$

$$\frac{74}{64} - \frac{37}{64} = \frac{37}{64}$$

$$\frac{6}{24} + \frac{14}{24} = \frac{20}{24}$$

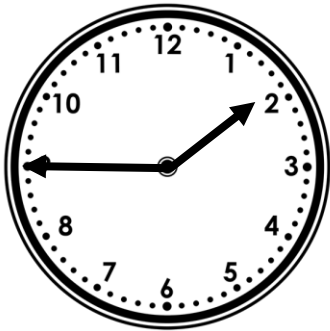
$$\frac{17}{18} - \frac{13}{18} = \frac{4}{18}$$

$$\frac{36}{99} + \frac{36}{99} = \frac{72}{99}$$

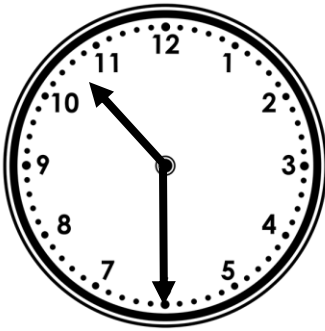
$$\frac{31}{52} - \frac{26}{52} = \frac{5}{52}$$

$$\frac{41}{87} + \frac{42}{87} = \frac{83}{87}$$

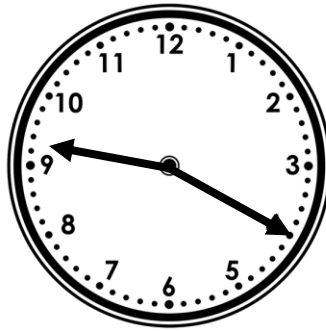
- Read, write and convert time between analogue and digital 12 and 24 hour clocks



in the afternoon	
12 hour	1:45pm
24 hour	13:45



in the morning	
12 hour	10:30am
24 hour	10:30



in the morning	
12 hour	9:20am
24 hour	09:20



in the afternoon	
12 hour	5:38pm
24 hour	17:38