



Key Instant Recall Facts

Year 6 – Spring 2

I can convert between decimals, fractions and percentages

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

$$\frac{1}{2} = 0.5$$

$$\frac{1}{4} = 0.25$$

$$\frac{3}{4} = 0.75$$

$$\frac{1}{10} = 0.1$$

$$\frac{1}{5} = 0.2$$

$$\frac{3}{5} = 0.6$$

$$\frac{9}{10} = 0.9$$

$$\frac{1}{100} = 0.01$$

$$\frac{7}{100} = 0.07$$

$$\frac{21}{100} = 0.21$$

$$\frac{75}{100} = 0.75$$

$$\frac{99}{100} = 0.99$$

Key Vocabulary

How many **tenths** is 0.8?

How many **hundredths** is 0.12?

Write 0.75 as a **fraction**?

Write $\frac{1}{4}$ as a **decimal**?

I know units of measure and the formulae for calculating the area of shapes

perimeter = length + width + length + width or (length + width) × 2

length × width × height = volume of a cuboid

base × perpendicular height ÷ 2 = area of a triangle

base × perpendicular height = area of a parallelogram

5 miles = 8 kilometres

Converting Mass

1 tonne = 1000kg

1000g = 1kg

$\frac{1}{10}$ kg = 0.1kg = 100g

$\frac{1}{4}$ kg = 0.25kg = 250g

$\frac{1}{2}$ kg = 0.5kg = 500g

$\frac{3}{4}$ kg = 0.75 = 750g

Converting Capacity

1000ml = 1l

$\frac{1}{10}$ l = 0.1l = 100ml

$\frac{1}{4}$ l = 0.25l = 250ml

$\frac{1}{2}$ l = 0.5l = 500ml

$\frac{3}{4}$ l = 0.75l = 750ml

$\frac{1}{100}$ l = 0.01l = 10ml

Minute 1 minute = 60 seconds

Hour 1 hour = 60 minutes

Day 1 day = 24 hours

Week 1 week = 7 days

Top Tip #1

The secret to success is practising **little** and **often**. Use time wisely. Can you practise these KIRFs 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 family of the day. If you would like more ideas, please speak to your child's teacher.

Top Tip #2

Use interactive learning tools to practise recalling the facts. For the KIRFs above, you could use:



IXL: Year 6
BB.3-6 and BB.15
T.2-5



Year 6 KIRFs – Spring Term 2

Test 1

Fill in the blanks:

Fraction	Decimal	Percentage
	1	100%
	0.5	50%
	0.33...	33.3...%
	0.25	25%
	0.75	75%
	0.2	20%
	0.125	12.5%
	0.1	10%
	0.01	1%

Kilometres	Metres
0.386	
0.178	
0.969	
0.77	
0.529	
0.019	
0.252	
0.481	
0.765	
0.95	

Kilometres	Miles
	5
	15
	20
	35
	50
	65
	75
	90
	100
	150

Millimetres	Centimetres
	6.22
	3.38
	3.75
	2.76
	1.9
	7.03
	3.8
	4.66
	8.63
	0.49

Name: _____

Your percentage this week: _____

(total available score divided by 100, multiplied by how many you answered correctly)

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Year 6 KIRFs – Spring Term 2

Test 2

Fill in the blanks:

Fraction	Decimal	Percentage
$\frac{1}{1}$		100%
$\frac{1}{2}$		50%
$\frac{1}{3}$		33.3...%
$\frac{1}{4}$		25%
$\frac{3}{4}$		75%
$\frac{1}{5}$		20%
$\frac{1}{8}$		12.5%
$\frac{1}{10}$		10%
$\frac{1}{100}$		1%

Kilometres	Metres
1.397	
6.919	
6.618	
5.32	
8.288	
8.828	
8.372	
1.311	
2.127	
4.363	

Kilometres	Miles
16	
40	
64	
72	
88	
112	
128	
152	
160	
200	

Litres	Millilitres
0.252	
0.633	
0.191	
0.721	
0.725	
0.71	
0.583	
0.595	
0.625	
0.244	

Name: _____

Your percentage this week: _____

(total available score divided by 100, multiplied by how many you answered correctly)

Year 6 KIRFs – Spring Term 2

Test 3

Fill in the blanks:

Fraction	Decimal	Percentage
$\frac{1}{1}$	1	
$\frac{1}{2}$	0.5	
$\frac{1}{3}$	0.33...	
$\frac{1}{4}$	0.25	
$\frac{3}{4}$	0.75	
$\frac{1}{5}$	0.2	
$\frac{1}{8}$	0.125	
$\frac{1}{10}$	0.1	
$\frac{1}{100}$	0.01	

Kilometres	Metres
	921
	14
	222
	441
	711
	1000
	578
	353
	474
	629

Kilometres	Miles
	3
	8
	11
	16
	23
	32
	47
	78
	101
	142

Litres	Millilitres
1.929	
1.308	
7.717	
2.59	
2.031	
8.53	
4.103	
6.924	
4.531	
5.007	

Name: _____

Your percentage this week: _____

(total available score divided by 100, multiplied by how many you answered correctly)

Year 6 KIRFs – Spring Term 2

Test 4

Fill in the blanks:

Fraction	Decimal	Percentage
	0.33	
		183%
$\frac{4}{100}$		
	0.74	
		92%
$\frac{65}{100}$		
	1.10	

Kilometres	Metres
	8653
2.796	
5.671	
	4708
	6784
5.998	
	6882
6.688	
9.854	
	1766

Kilometres	Miles
3	
	4.375
16	
21	
	17.5
47	
	38.75
85	
140	
	130

Millimetres	Centimetres
	9.43
71.6	
	3.16
	8.32
44.9	
88	
	4.46
	7.2
82.8	
85.4	

Name: _____

Your percentage this week: _____

(total available score divided by 100, multiplied by how many you answered correctly)

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Year 6 KIRFs – Spring Term 2

Test 5

Fill in the blanks:

Fraction	Decimal	Percentage
	1	
		50%
		33.3...%
$\frac{1}{4}$		
$\frac{3}{4}$		
$\frac{1}{5}$		
	0.125	
$\frac{1}{10}$		
		1%

Kilometres	Metres
	1865
	5977
	7736
	3814
	8530
	7557
	1725
	3331
	5593
	2778

Kilometres	Miles
4	
10	
15	
20	
28	
35	
50	
100	
125	
250	

Kilograms	Grams
	3593
7.793	
7.791	
	2718
	3079
1.193	
	3191
2.257	
4.568	
	1722

Name: _____

Your percentage this week: _____

(total available score divided by 100, multiplied by how many you answered correctly)

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Year 6 KIRFs – Spring Term 2

Test 6

Fill in the blanks:

Fraction	Decimal	Percentage
	1	
	0.5	
		33.3...%
$\frac{1}{4}$		
		75%
$\frac{1}{5}$		
	0.125	
		10%
	0.01	

Kilometres	Metres	Kilometres	Miles	Kilograms	Grams
	180		1		3593
	485	11.2		7.793	
0.95			12	7.791	
0.101			14		2718
	212	41.6			3079
0.312		59.2		1.193	
0.098			49		3191
	251	150.4		2.257	
	981		105	4.568	
0.616		720			1722

Name: _____

Your percentage this week: _____

(total available score divided by 100, multiplied by how many you answered correctly)

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