Key Instant Recall Facts

Year 5 – Term 1

Now I know my table facts…I can workout missing numbers

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

e.g.

$\_\_ \times 3 = 21$

$4 \times \_\_ = 36$

$48 \div \_\_ = 8$

$\_\_ \div 6 = 7$

To work out these unknowns, your child needs to be fluent in recalling times table facts

Top Tips

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 of the day. If you would like more ideas, please speak to your child's teacher.

Speed – Improve speed by using TT Rockstars or an alternative quickfire online activity
Cover-up – Covering up times table facts or writing out fact families can help

Key Instant Recall Facts

Year 5 – Term 2

I can recall prime numbers up to 19

I can recall single value of Roman Numerals up to M

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

A prime number is a number with exactly 2 factors: itself and 1.

The following numbers are <u>prime numbers</u>:

2, 3, 5, 7, 11, 13, 17, 19

ROMAN NUMERALS

I =1
V =5
X =10
L =50
C =100
D =500
M =1000

I =1	XI =11
II =2	XII =12
III =3	XIII =13
IV =4	XIV =14
V =5	XV =15
VI =6	XVI =16
VII =7	XVII =17
VIII =8	XVIII =18
IX =9	XIX =19
X =10	XX =20

Key Vocabulary

prime number

composite number

factor

multiple

Top Tips

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It's really important that your child uses mathematical vocabulary accurately. Choose a number between 2 and 20. How many correct statements can your child make about this number using the vocabulary above?

Make a set of cards for the numbers from 2 to 20. How quickly can your child sort these into prime and composite numbers? How many even prime numbers can they find? How many odd composite numbers?

Key Instant Recall Facts

Year 5 – Term 3

I can recall square numbers up to 144

I can recall cube numbers up to 125

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

<u>Square numbers</u>

$1^2 = 1 \times 1 = 1$

$2^2 = 2 \times 2 = 4$

$3^2 = 3 \times 3 = 9$

$4^2 = 4 \times 4 = 16$

$5^2 = 5 \times 5 = 25$

$6^2 = 6 \times 6 = 36$

$7^2 = 7 \times 7 = 49$

$8^2 = 8 \times 8 = 64$

$9^2 = 9 \times 9 = 81$

$10^2 = 10 \times 10 = 100$

$11^2 = 11 \times 11 = 121$

$12^2 = 12 \times 12 = 144$

<u>Cube Numbers</u>

$1^3 = 1 \times 1 \times 1 = 1$

$2^3 = 2 \times 2 \times 2 = 8$

$3^3 = 3 \times 3 \times 3 = 27$

$4^3 = 4 \times 4 \times 4 = 64$

$5^3 = 5 \times 5 \times 5 = 125$

Key Vocabulary
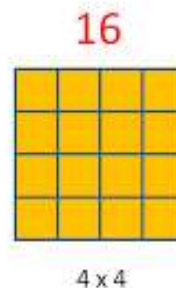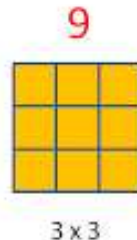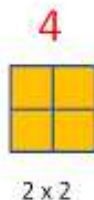
What is 8 **squared**?

What is 7 **multiplied by itself**?

What is 3 **cubed?**?

Is 1 a **cube number?**

16

9

4

1

1 x 1   2 x 2   3 x 3   4 x 4

<u>Top Tips</u>

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<u>Cycling Squares</u> – At http://nrich.maths.org/1151 there is a challenge involving square numbers. Can you complete the challenge and then create your own examples?

<u>Use memory tricks</u> – For those hard-to-remember facts, www.multiplication.com has some strange picture stories to help children remember.

Key Instant Recall Facts

Year 5 – Term 4

I can recall simple percentage and decimal equivalents

I can derive related decimal products from known table facts using only one transformation

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

Learn these by heart

$$\frac{1}{2} = 0.5 = 50\%$$

$$\frac{1}{4} = 0.25 = 25\%$$

$$\frac{1}{5} = 0.2 = 20\%$$

$$\frac{2}{5} = 0.4 = 40\%$$

$$\frac{4}{5} = 0.8 = 80\%$$

If I know THIS, then I can work out THAT

*Now you know all your times table facts, we can use them to work out products of other multiplications.*

e.g. If know 4 x 8 = 32, then I can work out 4 x 0.8 is 3.2 as 0.8 is ten times smaller than 8.

Using table facts in this way is extremely efficient.

Top Tips

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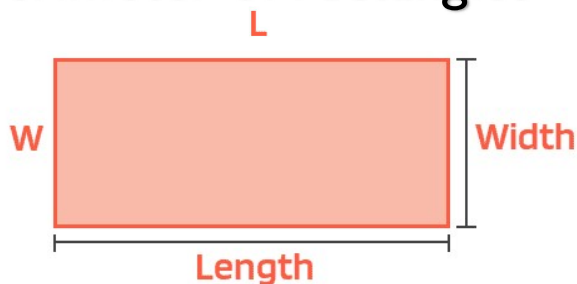Matching Games can really help your child to build up speed of recall.
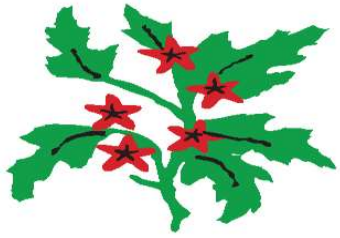
Key Instant Recall Facts

Year 5 – Term 5

I know the formulae for finding the perimeter and area of rectangles

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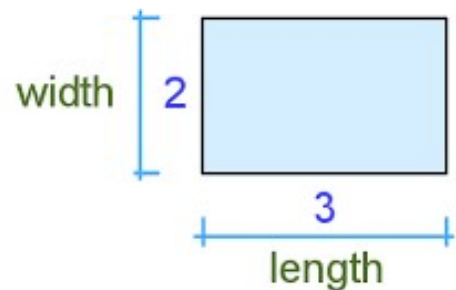
Perimeter of rectangles

Formula:

$$P = 2L + 2W$$

where **L** stands for the **length** and
W stands for the **width**

Area of rectangles

Area = length x width

$$A = L \times W$$

Top Tips

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 of the day. If you would like more ideas, please speak to your child's teacher.

Recalling facts – It is easy to get mixed up between the two formulae. Remember, these only apply to rectangles. Next year, your child will learn other formulae, including finding the area of triangles.
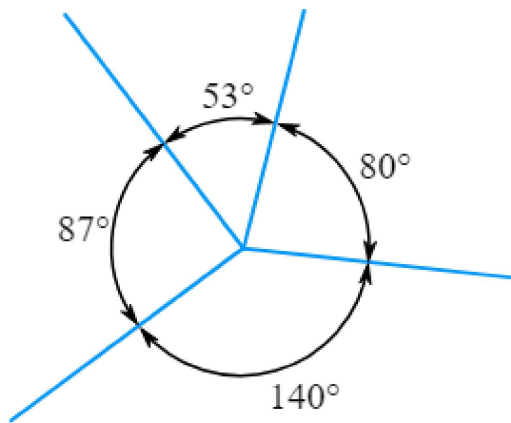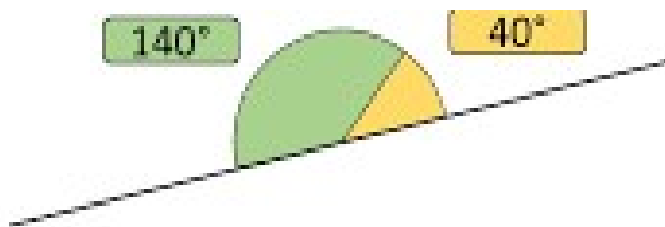
Key Instant Recall Facts

Year 5 – Term 6

I know that angles describe turning and are measured in degrees

I know the degrees of turn around a point and a straight line

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

53°

80°

87°

140°

Angles around a point always total 360°. This is a whole turn.

140°   40°

Angles on a point along a straight line always total 180°. This is a half turn.

Top Tips

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 of the day. If you would like more ideas, please speak to your child's teacher.

Key knowledge- Knowing these two facts is an important first step towards being able to work out missing angles. Next year, your child will also learn about angles within 2D shapes (including triangles).