Key Instant Recall Facts Year 6 – Autumn 2

Key Vocabulary
Multiply
Times
Divide
Product
Decimals

Key Questions

What is 1.2 multiplied by 6?

What is 7 times 0.8?

What is the product of 0.9 and 4?

What is 8.4 divided by 7?

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?

I aspire to use x table facts to multiply and divide decimals.

==By the end of this half term, you should be able to use known facts for times tables to multiply decimals efficiently.==

This is a chance for Year 6 children to consolidate their knowledge of multiplication and division facts, increase their speed and recall and apply skills to decimal calculations.

They should be able to answer these questions in any order, including missing number questions e.g. $7 \times \bigcirc = 28$ or $\bigcirc \div 6 = 7$.

Children should apply this knowledge to answer questions including decimals e.g. $0.7 \times \bigcirc = 4.2$ or $\bigcirc \div 60 = 0.7$

Use key table facts to solve
$3 \times 7 = 21$ (make the number 10 times smaller)
$0.3 \times 7 = 2.1$

Your home learning this half term...

Challenge 1: Multiplying decimals	Write out the 2×, 4×, and 5× tables using decimals instead of whole numbers. *For example:* $0.2 \times 1 = 0.2$ $0.2 \times 2 = 0.4$ $0.2 \times 3 = 0.6$ Extension: Spot any patterns — how do these compare to the normal times tables?
Challenge 2: Dividing decimals	Use your timetables knowledge to complete the calculations: $2.4 \div 2 =$ $\qquad$ $0.65 \div 0.5 =$ $2.7 \div 0.3 =$ $\qquad$ $6 \div 0.66 =$ $4.9 \div 0.7 =$ $\qquad$ $0.8 \div 0.48 =$
Challenge 3: Develop your fluency	Practise your skills by playing this game https://wordwall.net/resource/847549/maths/multiplying-decimals
Challenge 4: Increase your fluency	Mystery Decimal Puzzle Fill in the blanks: $\qquad$ Extension: $0.3 \times \_ = 1.5$ $\qquad$ Make up three of your own $\_ \times 0.6 = 3.0$ $2.4 \div \_ = 0.8$ $\_ \div 0.5 = 6$
Challenge 5: Embed your knowledge	Fruit Shop Prices A fruit shop sells: $\qquad$ Questions: An apple for £0.35 $\qquad$ How much would 4 apples cost? A banana for £0.45 $\qquad$ What is the cost of 5 bananas? A kiwi for £0.60 $\qquad$ How many kiwis can you buy for £3? Extension – Can you make up and answer 3 questions of your own?
Challenge 6: Apply your knowledge	Baking with Decimals A recipe uses 0.25 kg of sugar to make 1 cake. How much sugar is needed for 3 cakes? How much sugar is needed for 6 cakes? If you only have 1 kg of sugar, how many cakes can you make?