



Key Instant Recall Facts

Challenge 6.3

Before moving on to the next challenge, children should know the following facts. The aim is for them to recall these facts instantly.

Your child's KIRF this half term is: solve 1-step algebraic equations

E.g.

Solve the equations.

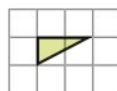
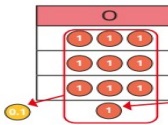
$$3x = 21$$

$$y + 5 = 11$$

$$z - 6 = 8$$

$$p \div 3 = 10$$

In addition you can help by practicing the following:

Scale Factors	<p>On squared paper, enlarge the triangle by a scale factor of 3</p> 																																				
Substitution	<p>If $a = 5$ and $b = 12$, work out the values of the expressions.</p> <div style="display: flex; justify-content: space-around;"><div>$a + b$</div><div>$b - a$</div><div>$2b - a$</div><div>$a + 3b$</div><div>$b \div 2$</div><div>$20 \div a$</div></div>																																				
Multiply & Divide by 10, 100 and 1,000	<p>Complete the table.</p> <table border="1"><thead><tr><th></th><th>30</th><th>3 kg</th><th></th><th></th><th></th></tr></thead><tbody><tr><td>$\div 10$</td><td></td><td></td><td>0.9</td><td></td><td></td></tr><tr><td>$\div 100$</td><td></td><td></td><td></td><td></td><td>0.09</td></tr><tr><td>$\div 1,000$</td><td></td><td></td><td></td><td>9</td><td></td></tr></tbody></table>		30	3 kg				$\div 10$			0.9			$\div 100$					0.09	$\div 1,000$				9													
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Multiply & Divide decimals by integers	<p>Dexter uses place value counters to work out 3.42×3</p> <div style="display: flex; align-items: center;"><div style="margin-right: 10px;"><table border="1"><thead><tr><th>O</th><th>Tth</th><th>Hth</th></tr></thead><tbody><tr><td>1 1 1</td><td>4 4 4</td><td>2 2</td></tr><tr><td>1 1 1</td><td>4 4 4</td><td>2 2</td></tr><tr><td>1 1 1</td><td>4 4 4</td><td>2 2</td></tr></tbody></table></div><div></div></div> <div style="margin-top: 10px;"><table border="1"><tr><td></td><td></td><td>3</td><td>+</td><td>4</td><td>2</td></tr><tr><td>\times</td><td></td><td></td><td></td><td></td><td>3</td></tr><tr><td></td><td>1</td><td>0</td><td>+</td><td>2</td><td>6</td></tr><tr><td></td><td></td><td></td><td></td><td>1</td><td></td></tr></table></div> <p>Use Dexter's method to work out the multiplications.</p> <div style="display: flex; justify-content: space-around;"><div>2.31×4</div><div>3.75×3</div><div>0.55×2</div><div>1.08×3</div></div>	O	Tth	Hth	1 1 1	4 4 4	2 2	1 1 1	4 4 4	2 2	1 1 1	4 4 4	2 2			3	+	4	2	\times					3		1	0	+	2	6					1	
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Top Tips

The secret to success is practicing little and often. Use time wisely. Can you practice these KIRFs while walking to school or during a car journey? You do not need to practice 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.



Calculations

Challenge 6.3

Children will learn multiplication using the following methods.

Skill: Multiply 4-digit numbers by 2-digit numbers	Year: 5/6																																																												
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