

Fluent in Five

Daily Arithmetic Practice
Week 5

Year 6

Year 6 - Week 5

Please note, we always recommend reading 'Your Guide to Using Fluent in Five' before using these resources with your class.

This week in a nutshell

Now children are confident with the structure of Fluent in Five, the calculation load and complexity is beginning to be increased to a level similar to the end of Key Stage 2 arithmetic test. However, there are still only 2 questions where a formal written method is needed.

- Mental subtraction focuses on subtracting decimals, including where there are an unequal number of decimal places, but where the place value boundaries are not crossed.
- Mental multiplication focuses on multiplying 3 single-digit numbers, using the commutative and associative law (e.g. calculating $8 \times 3 \times 3$ by understanding that you can calculate $3 \times 3 = 9$ and then multiply 8 by 9).
- Written addition and subtraction involves decimals, including where there is an unequal number of decimal places. In order to tackle these, it is important that children have a secure understanding of place value in decimals, and the role of 0 as a place holder.
- Addition of fractions with different denominators is introduced for the first time this week, but in this week's questions, one denominator will always be a simple multiple of the other.

Name.....

Date..... School.....

Class..... Score.....

1	$\frac{1}{7} + \frac{3}{7} =$	<input type="text"/> 1 mark

2	$43.34 + 4.894 =$	<input type="text"/> 1 mark

3	$76.4 - 21.2 =$																				<input type="text"/> 1 mark

4	$5 \times 6 \times 5 =$																				<input type="text"/> 1 mark

5	$683 \times 7 =$																				<input type="text"/> 1 mark

Answer Sheet

Remember, (M) is written next to those questions you should have tried to solve mentally first. (W) means a written method is usually more efficient for this question.

1. $\frac{1}{7} + \frac{3}{7} = \frac{4}{7}$ (M)

2. $43.34 + 4.894 = \mathbf{48.234}$ (W)

3. $76.4 - 21.2 = \mathbf{55.2}$ (M)

4. $5 \times 6 \times 5 = \mathbf{150}$ (M)

5. $683 \times 7 = \mathbf{4,781}$ (W)

Name.....

Date.....School.....

Class.....Score.....

1	$\frac{1}{3} + \frac{1}{6} =$	<div></div> <div>1 mark</div>

2	<div></div> - 18,573 = 22,749	<div></div> <div>1 mark</div>

3	$8 \times 3 \times 3 =$	<div style="border: 1px solid black; width: 40px; height: 30px; margin: 0 auto;"></div> <p style="text-align: center; margin: 0;">1 mark</p>
	<div style="position: absolute; bottom: 20px; right: 20px; border: 2px solid blue; width: 150px; height: 40px;"></div>	

4	$89.43 - 13.12 =$	<div style="border: 1px solid black; width: 40px; height: 30px; margin: 0 auto;"></div> <p style="text-align: center; margin: 0;">1 mark</p>
	<div style="position: absolute; bottom: 20px; right: 20px; border: 2px solid blue; width: 150px; height: 40px;"></div>	

5	$37 \times 78 =$	<div style="border: 1px solid black; width: 40px; height: 30px; margin: 0 auto;"></div> <p style="text-align: center; margin: 0;">2 marks</p>
	<div style="position: absolute; bottom: 20px; right: 20px; border: 2px solid blue; width: 150px; height: 40px;"></div>	

Answer Sheet

Remember, (M) is written next to those questions you should have tried to solve mentally first. (W) means a written method is usually more efficient for this question.

1. $\frac{1}{3} + \frac{1}{6} = \frac{3}{6} \text{ or } \frac{1}{2}$ (M)

2. **41,322** – 18,573 = 22,749 (W)

3. $8 \times 3 \times 3 = \mathbf{72}$ (M)

4. $89.43 - 13.12 = \mathbf{76.31}$ (M)

5. $37 \times 78 = \mathbf{2,886}$ (W)

Name.....

Date..... School.....

Class..... Score

1	$87 \div 100 =$	<div></div> <div>1 mark</div>

2	$5 \times 6 \times 5 =$	<div></div> <div>1 mark</div>

3	$86.49 - 17.9 =$																				<input type="text"/> 1 mark

4	$\frac{1}{5} + \frac{4}{15} =$																				<input type="text"/> 1 mark

5	$3,842 \div 5 =$																				<input type="text"/> 1 mark

Answer Sheet

Remember, (M) is written next to those questions you should have tried to solve mentally first. (W) means a written method is usually more efficient for this question.

1. $87 \div 100 = \mathbf{0.87}$ (M)

2. $5 \times 6 \times 5 = \mathbf{150}$ (M)

3. $86.49 - 17.9 = \mathbf{68.59}$ (W)

4. $\frac{1}{5} + \frac{4}{15} = \frac{\mathbf{7}}{\mathbf{15}}$ (M)

5. $3,842 \div 5 = \mathbf{768 \text{ r } 2}$ *or* $\mathbf{768 \frac{2}{5}}$ *or* $\mathbf{768.4}$ (W)

Name.....

Date.....School.....

Class.....Score.....

1	$\frac{2}{9} + \frac{1}{3} =$	<div></div> <div>1 mark</div>

2	$3 \times 0 \times 9 =$	<div></div> <div>1 mark</div>

3	$76.4 - 16.53 =$																				<input type="text"/> 1 mark

4	$76.39 - 13.2 =$																				<input type="text"/> 1 mark

5	$8,473 + 12,987 =$																				<input type="text"/> 1 mark

Answer Sheet

Remember, (M) is written next to those questions you should have tried to solve mentally first. (W) means a written method is usually more efficient for this question.

1. $\frac{2}{9} + \frac{1}{3} = \frac{5}{9}$ (M)

2. $3 \times 0 \times 9 = 0$ (M)

3. $76.4 - 16.53 = 59.87$ (W)

4. $76.39 - 13.2 = 63.19$ (M)

5. $8,473 + 12,987 = 21,460$ (W)

Name.....

Date..... School.....

Class..... Score

1	800 – 290 =	<div></div> <div>1 mark</div>

2	437 x 5 =	<div></div> <div>1 mark</div>

3	$6.394 - 2.13 =$																				<input type="text"/> 1 mark

4	$\frac{2}{7} + \frac{3}{14} =$																				<input type="text"/> 1 mark

5	$87,832 - 12,839 =$																				<input type="text"/> 1 mark

Answer Sheet

Remember, (M) is written next to those questions you should have tried to solve mentally first. (W) means a written method is usually more efficient for this question.

1. $800 - 290 = \mathbf{510}$ (M)

2. $437 \times 5 = \mathbf{2,185}$ (W)

3. $6.394 - 2.13 = \mathbf{4.264}$ (M)

4. $\frac{2}{7} + \frac{3}{14} = \frac{\mathbf{7}}{\mathbf{14}}$ *or* $\frac{\mathbf{1}}{\mathbf{2}}$ (M)

5. $87,832 - 12,839 = \mathbf{75,293}$ (W)