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 x 3 x 3 by understanding that you can calculate 3 x 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.
1. \[ \frac{1}{7} + \frac{3}{7} = \]

2. \[ 43.34 + 4.894 = \]
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<thead>
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<tbody>
<tr>
<td>3</td>
<td>$76.4 - 21.2 =$</td>
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<tr>
<td>4</td>
<td>$5 \times 6 \times 5 =$</td>
</tr>
<tr>
<td>5</td>
<td>$683 \times 7 =$</td>
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Fluent in Five - Year 6
Week 5 - Day 1

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. \[ \frac{1}{7} + \frac{3}{7} = \frac{4}{7} \text{ (M)} \]

2. \[ 43.34 + 4.894 = 48.234 \text{ (W)} \]

3. \[ 76.4 – 21.2 = 55.2 \text{ (M)} \]

4. \[ 5 \times 6 \times 5 = 150 \text{ (M)} \]

5. \[ 683 \times 7 = 4781 \text{ (W)} \]
Fluent in Five - Year 6
Week 5 - Day 2

Name........................................................................................................
Date..................................................School..................................................
Class..................................................Score..................................................

1 \( \frac{1}{3} + \frac{1}{6} = \)

2 \( -18,573 + 22,749 = \)

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### Fluent in Five - Year 6
#### Week 5 - Day 2

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<tr>
<td><strong>3</strong></td>
<td>(8 \times 3 \times 3 = )</td>
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<tr>
<td><strong>4</strong></td>
<td>(89.43 - 13.12 = )</td>
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<tr>
<td><strong>5</strong></td>
<td>(37 \times 78 = )</td>
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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. \( 8 \times 3 \times 3 = 72 \) (M)

4. \( 89.43 - 13.12 = 76.31 \) (M)

5. \( 37 \times 78 = 2,886 \) (W)
Fluent in Five - Year 6
Week 5 - Day 3

Name..........................................................................................................................
Date......................................................School.......................................................Class......................................................Score....................................................... 

1  
87 ÷ 100 =

2  
5 × 6 × 5 =
Fluent in Five - Year 6
Week 5 - Day 3

3. \[86.49 - 17.9 = \]

4. \[\frac{1}{5} + \frac{4}{15} = \]

5. \[3,842 ÷ 5 = \]
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. \( 87 \div 100 = 0.87 \) (M)

2. \( 5 \times 6 \times 5 = 150 \) (M)

3. \( 86.49 - 17.9 = 68.59 \) (W)

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

5. \( 3,842 \div 5 = 768 \text{ r } 2 \text{ or } 768 \frac{2}{5} \text{ or } 768.4 \) (W)
Fluent in Five - Year 6
Week 5 - Day 4

Name........................................................................................................
Date........................................................................School.................................................................
Class........................................................Score........................................................................

1 \[ \frac{2}{9} + \frac{1}{3} = \]

2 \[ 3 \times 0 \times 9 = \]
Fluent in Five - Year 6
Week 5 - Day 4

3. 76.4 – 16.53 =

4. 76.39 – 13.2 =

5. 8,473 + 12,987 =
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)
Fluent in Five - Year 6
Week 5 - Day 5

Name........................................................................................................
Date..................................................School..................................................
Class..................................................Score..................................................

1  800 – 290 =

2  437 x 5 =
3. $6.394 - 2.13 = \phantom{1}\rule{1cm}{0.15em}$

4. $\frac{2}{7} + \frac{3}{14} = \phantom{1}\rule{1cm}{0.15em}$

5. $87,832 - 12,839 = \phantom{1}\rule{1cm}{0.15em}$
1. $800 - 290 = 510$ (M)

2. $437 \times 5 = 2185$ (W)

3. $6.394 - 2.13 = 4.264$ (M)

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

5. $87,832 - 12,839 = 74,993$ (W)

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.