

Fluent in Five

Daily Arithmetic Practice
Week 11

Year 6

Year 6 - Week 11

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

- Questions recap on mental multiplication, division, addition and subtraction content from the previous 10 weeks.
- This week, pupils will need to calculate percentage of amount for the first time.
- Addition and subtraction of fractions with different denominators is a focus this week.
- Written questions continue to focus on addition and subtraction of decimals, together with long and short division and multiplication.

1	854.34 + <input data-bbox="462 302 737 414" type="text"/> = 923.78	<div data-bbox="1380 705 1460 784" style="border: 1px solid black; width: 40px; height: 35px; margin: 0 auto;"></div> <div data-bbox="1374 779 1474 815" style="text-align: center;">1 mark</div>

2	45 x 32 =	<div data-bbox="1380 1332 1460 1411" style="border: 1px solid black; width: 40px; height: 35px; margin: 0 auto;"></div> <div data-bbox="1374 1406 1485 1440" style="text-align: center;">2 marks</div>

3	15% of 80 =	<div data-bbox="1380 1960 1460 2038" style="border: 1px solid black; width: 40px; height: 35px; margin: 0 auto;"></div> <div data-bbox="1374 2033 1474 2067" style="text-align: center;">1 mark</div>

4	<div style="border: 2px solid blue; display: inline-block; width: 150px; height: 40px; margin-bottom: 10px;"></div> $\div 1.3 = 4$	<div style="border: 1px solid black; width: 40px; height: 30px; margin: 0 auto;"></div> 1 mark
<div style="border: 1px solid #ccc; width: 100%; height: 100%; background-image: linear-gradient(to right, #ccc 1px, transparent 1px), linear-gradient(to bottom, #ccc 1px, transparent 1px); background-size: 20px 20px;"></div>		

5	$\frac{1}{5} + \frac{3}{10} =$	<div style="border: 1px solid black; width: 40px; height: 30px; margin: 0 auto;"></div> 1 mark
<div style="border: 1px solid #ccc; width: 100%; height: 100%; background-image: linear-gradient(to right, #ccc 1px, transparent 1px), linear-gradient(to bottom, #ccc 1px, transparent 1px); background-size: 20px 20px;"></div>		

6	$800 + 679 =$	<div style="border: 1px solid black; width: 40px; height: 30px; margin: 0 auto;"></div> 1 mark
<div style="border: 1px solid #ccc; width: 100%; height: 100%; background-image: linear-gradient(to right, #ccc 1px, transparent 1px), linear-gradient(to bottom, #ccc 1px, transparent 1px); background-size: 20px 20px;"></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. $854.34 + \mathbf{69.44} = 923.78$ (W)

2. $45 \times 32 = \mathbf{1,440}$ (W)

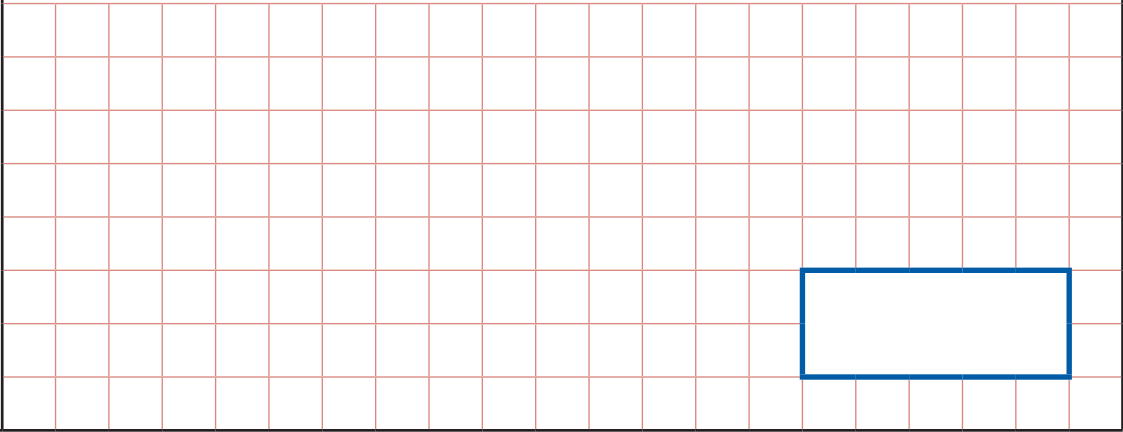
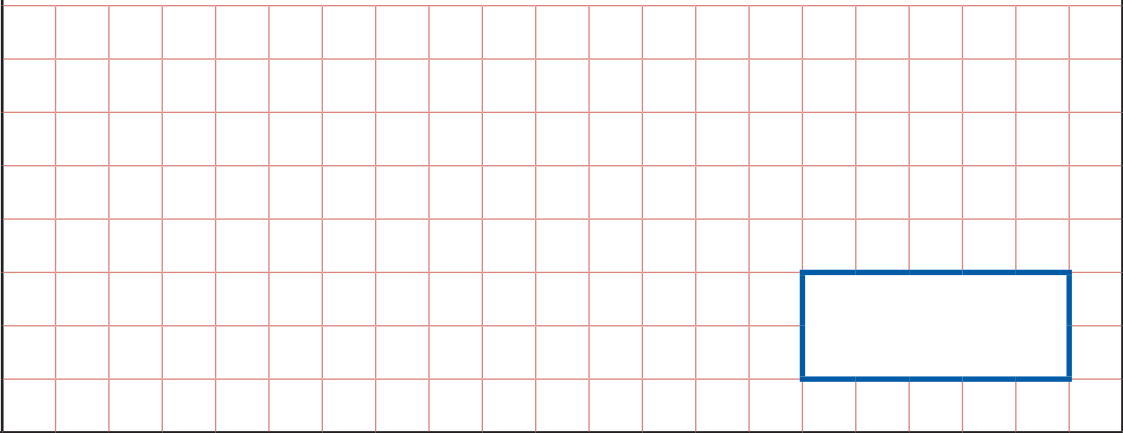
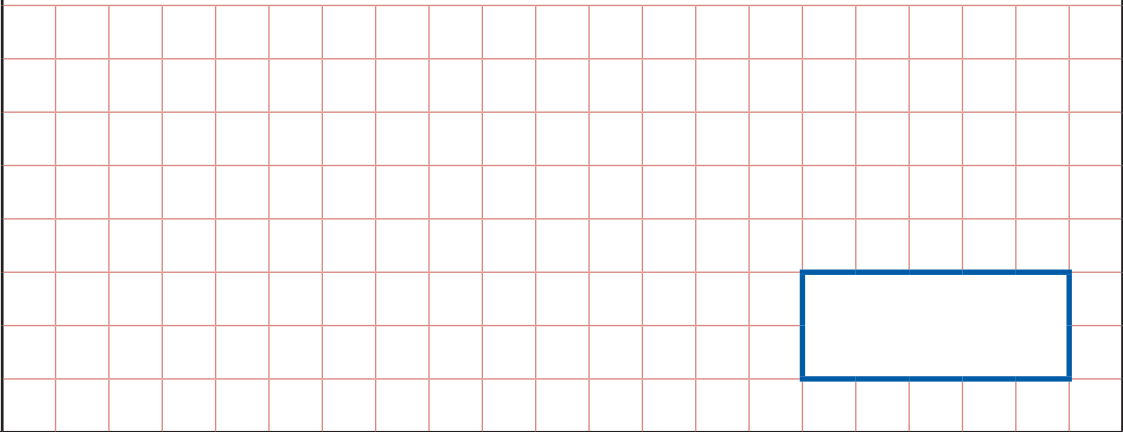
3. $15\% \text{ of } 80 = \mathbf{12}$ (M)

4. $\mathbf{5.2} \div 1.3 = 4$ (M)

5. $\frac{1}{5} + \frac{3}{10} = \frac{\mathbf{5}}{\mathbf{10}}$ or $\frac{\mathbf{1}}{\mathbf{2}}$ (M)

6. $800 + 679 = \mathbf{1,479}$ (M)

1	<div data-bbox="276 322 552 434" style="border: 1px solid blue; width: 173px; height: 50px; display: inline-block;"></div> $\times 100 = 13.38$ <div data-bbox="229 468 1356 898" style="border: 1px solid red; width: 706px; height: 192px; position: relative;"><div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; background: repeating-linear-gradient(45deg, transparent, transparent 2px, red 2px, red 4px); background-size: 20px 20px;"></div></div>	<div data-bbox="1385 728 1468 808" style="border: 1px solid black; width: 52px; height: 36px; margin: 0 auto;"></div> <div data-bbox="1377 804 1476 837" style="text-align: center;">1 mark</div>
2	$653 \div 8 =$ <div data-bbox="229 1070 1356 1500" style="border: 1px solid red; width: 706px; height: 192px; position: relative;"><div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; background: repeating-linear-gradient(45deg, transparent, transparent 2px, red 2px, red 4px); background-size: 20px 20px;"></div></div> <div data-bbox="1031 1337 1305 1449" style="border: 1px solid blue; width: 172px; height: 50px; position: absolute; bottom: 20px; right: 20px;"></div>	<div data-bbox="1385 1330 1468 1411" style="border: 1px solid black; width: 52px; height: 36px; margin: 0 auto;"></div> <div data-bbox="1377 1406 1476 1440" style="text-align: center;">1 mark</div>
3	$\frac{5}{12} + \frac{1}{3} =$ <div data-bbox="229 1695 1356 2125" style="border: 1px solid red; width: 706px; height: 192px; position: relative;"><div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; background: repeating-linear-gradient(45deg, transparent, transparent 2px, red 2px, red 4px); background-size: 20px 20px;"></div></div> <div data-bbox="1031 1960 1305 2072" style="border: 1px solid blue; width: 172px; height: 50px; position: absolute; bottom: 20px; right: 20px;"></div>	<div data-bbox="1385 1953 1468 2033" style="border: 1px solid black; width: 52px; height: 36px; margin: 0 auto;"></div> <div data-bbox="1377 2029 1476 2063" style="text-align: center;">1 mark</div>

4	$25\% \text{ of } 140 =$  <div data-bbox="1031 716 1303 826" style="border: 2px solid blue; width: 171px; height: 49px; position: absolute; bottom: 20px; right: 20px;"></div>	<div data-bbox="1390 712 1469 792" style="border: 1px solid black; width: 50px; height: 36px; position: absolute; bottom: 20px; right: 20px;"></div> <div data-bbox="1378 786 1474 819">1 mark</div>
5	$784 - 220 =$  <div data-bbox="1031 1335 1303 1444" style="border: 2px solid blue; width: 171px; height: 49px; position: absolute; bottom: 20px; right: 20px;"></div>	<div data-bbox="1390 1330 1469 1411" style="border: 1px solid black; width: 50px; height: 36px; position: absolute; bottom: 20px; right: 20px;"></div> <div data-bbox="1378 1406 1474 1440">1 mark</div>
6	$3,832 \times 18 =$  <div data-bbox="1031 1960 1303 2069" style="border: 2px solid blue; width: 171px; height: 49px; position: absolute; bottom: 20px; right: 20px;"></div>	<div data-bbox="1390 1955 1469 2036" style="border: 1px solid black; width: 50px; height: 36px; position: absolute; bottom: 20px; right: 20px;"></div> <div data-bbox="1378 2029 1485 2063">2 marks</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. **0.1338** $\times 100 = 13.38$ (M)

2. $653 \div 8 = 81 \frac{5}{8}$ (W)

3. $\frac{5}{12} + \frac{1}{3} = \frac{9}{12}$ or $\frac{3}{4}$ (M)

4. 25% of 140 = **35** (M)

5. $784 - 220 = 564$ (M)

6. $3,832 \times 18 = 68,976$ (W)

1	$8^2 =$																				<input type="text"/> 1 mark

2	<div>2 1 8 7 4</div>																				<input type="text"/> 2 marks

3	$8 + 3 \times 6 =$																				<input type="text"/> 1 mark

4	35% of 60 =	<div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div>	<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div> 1 mark

5	$\frac{1}{4} + \frac{1}{20} =$		<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div> 1 mark

6	7,584 + 19,848 =	<div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div>	<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div> 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. $8^2 = \mathbf{64}$ (M)
2. $874 \div 21 = \mathbf{41 \text{ r } 13}$ (W)
3. $8 + 3 \times 6 = \mathbf{24}$ (M)
4. $35\% \text{ of } 60 = \mathbf{21}$ (M)
5. $\frac{1}{4} + \frac{1}{20} = \frac{\mathbf{6}}{\mathbf{20}}$ or $\frac{\mathbf{3}}{\mathbf{10}}$ (M)
6. $7,584 + 19,848 = \mathbf{27,432}$ (W)

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

1	1.38 + 3.48 =	<div></div> <div>1 mark</div>

2	98.384 + 12.843 =	<div></div> <div>1 mark</div>

3	65% x 120 =	<div></div> <div>1 mark</div>

4

$64 \times 4 =$

1 mark

5

$$\begin{array}{r} 563 \\ \times 9 \\ \hline \end{array}$$

1 mark

6

$100 \times \text{ } = 578.4$

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. $1.38 + 3.48 = \mathbf{4.86}$ (M)

2. $98.384 + 12.843 = \mathbf{111.227}$ (W)

3. $65\% \times 120 = \mathbf{78}$ (M)

4. $64 \times 4 = \mathbf{256}$ (M)

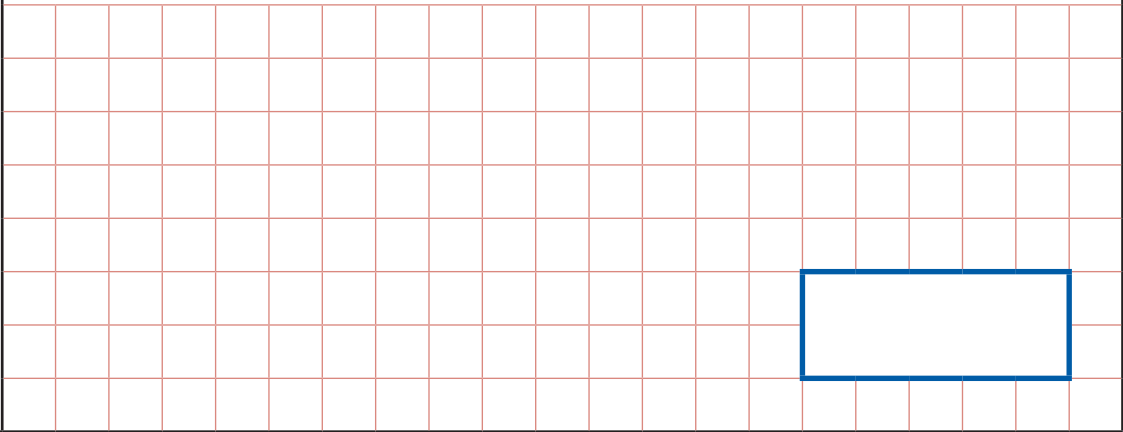
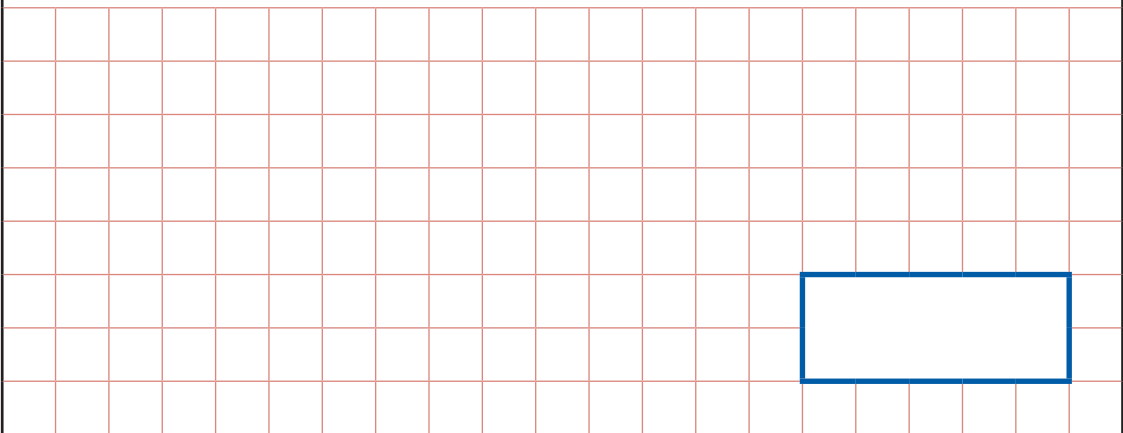
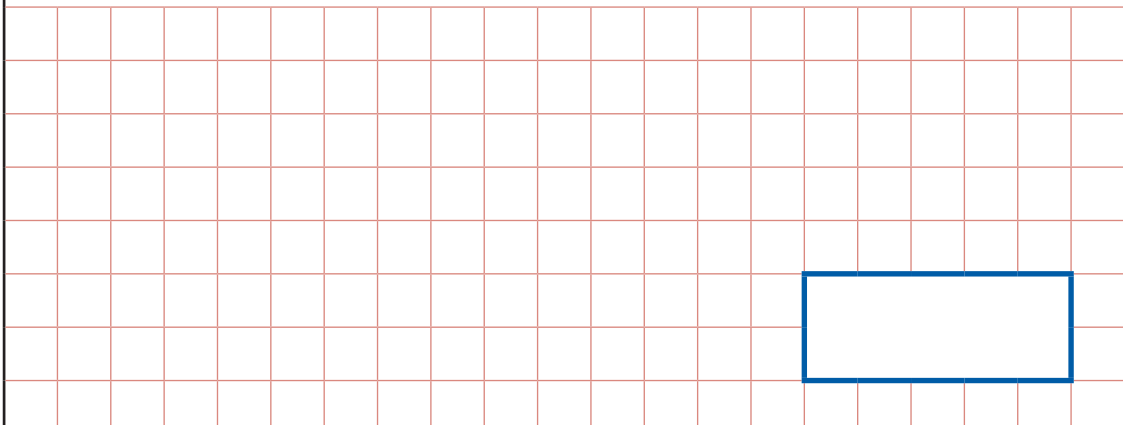
5. $563 \times 9 = \mathbf{5,067}$ (W)

6. $100 \times \mathbf{5.784} = 578.4$ (M)

1	$\frac{3}{5} \times 50 =$																				<input type="text"/> 1 mark

2	$984.32 - 183.84 =$																				<input type="text"/> 1 mark

3	$12\% \text{ of } 40 =$																				<input type="text"/> 1 mark

4	$110 \div 11 =$  <div data-bbox="1031 710 1305 822" style="border: 2px solid blue; width: 172px; height: 50px; position: absolute; bottom: 20px; right: 20px;"></div>	<div data-bbox="1388 705 1468 784" style="border: 1px solid black; width: 50px; height: 35px; position: absolute; bottom: 20px; right: 20px;"></div> <div data-bbox="1380 779 1476 813" style="position: absolute; bottom: 20px; right: 20px;">1 mark</div>
5	$674 \div 13 =$  <div data-bbox="1031 1332 1305 1444" style="border: 2px solid blue; width: 172px; height: 50px; position: absolute; bottom: 20px; right: 20px;"></div>	<div data-bbox="1388 1328 1468 1406" style="border: 1px solid black; width: 50px; height: 35px; position: absolute; bottom: 20px; right: 20px;"></div> <div data-bbox="1380 1402 1485 1435" style="position: absolute; bottom: 20px; right: 20px;">2 marks</div>
6	$5.6 \div 0.8 =$  <div data-bbox="1031 1944 1305 2056" style="border: 2px solid blue; width: 172px; height: 50px; position: absolute; bottom: 20px; right: 20px;"></div>	<div data-bbox="1388 1939 1468 2018" style="border: 1px solid black; width: 50px; height: 35px; position: absolute; bottom: 20px; right: 20px;"></div> <div data-bbox="1380 2013 1476 2047" style="position: absolute; bottom: 20px; right: 20px;">1 mark</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. $\frac{3}{5} \times 50 = \mathbf{30}$ (M)

2. $984.32 - 183.84 = \mathbf{800.48}$ (W)

3. 12% of 40 = **4.8** (M)

4. $110 \div 11 = \mathbf{10}$ (M)

5. $674 \div 13 = \mathbf{51 \text{ r } 11}$ (W)

6. $5.6 \div 0.8 = \mathbf{7}$ (M)