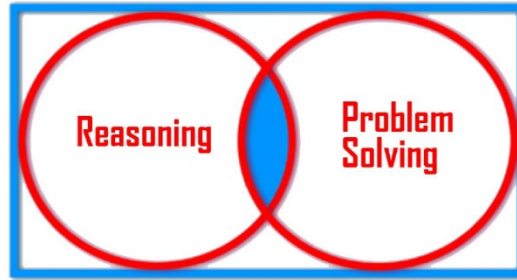


GCSE Foundation (5 – 1)



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Mathematical Reasoning Questions

(Integers and Place Value) – Set 1

The marks shown are for guidance purposes only

[Total marks: 21 Marks]

<p>1</p>	<p>Kyra is carrying out the following calculations. Some of Kyra's digits are missing. Help her find them.</p> <p>a) $\begin{array}{r} 5 \quad 8 \quad \square \\ 2 \quad \square \quad 6 \\ \hline 8 \quad 7 \quad 4 \end{array}$</p> <p>[1Mark]</p> <p>b) $\begin{array}{r} 5 \quad 6 \\ 7 \quad \square \\ 1 \quad 5 \\ \hline \square \quad \square \quad 9 \end{array}$</p> <p>[2Marks]</p>
<p>2</p>	<p>Which calculation below is equal to One million, One hundred and Ten thousand, one hundred and one?</p> <p>a) $1000000 + 11100 + 10 + 1$ b) $1000000 + 110000 + 100 + 10 + 1$ c) $1000000 + 1100 + 110 + 1$ d) $1000000 + 110000 + 100 + 1$</p> <p style="text-align: right;">[1mark]</p>
<p>3</p>	<p>Which answer below is closest to the calculation $(2020 - 2019) \times (2018 - 2019)$</p> <p>a) 1 b) 9 c) -8 d) 11</p> <p style="text-align: right;">[1mark]</p>
<p>4</p>	<p>Put a ring around the number closest to zero from the options below</p> <p>a) -111 b) -110 c) -101 d) -1101</p> <p style="text-align: right;">[1mark]</p>

5	<p>Work out the calculation $16 \times 5 - 8$</p> <p><u>Jessica's answer</u></p> <p>$16 \times 5 = 80$</p> <p>$80 - 8 = 72$</p> <p>Use a different calculation to show that Jessica's answer is correct</p> <p style="text-align: right;">[1mark]</p>
6	<p>Write a number in the box so that</p> $10 \times -20 \times 30 \times 40 = 100 \times 200 \times \square$ <p style="text-align: right;">[2Marks]</p>
7 	<p>The sum of the first 100 positive integers is 5050.</p> <p>Circle the number which is the sum of the first 100 odd positive integers?</p> <ul style="list-style-type: none">a) 5050b) 2525c) 10000d) 10100 <p style="text-align: right;">[2Marks]</p>

8	<p>Find the two calculations which have the same answer</p> <p>a) $6 + 5 - 12$</p> <p>b) $(-8 + 20) + (2 \times 1)$</p> <p>c) $(2 \times -1) + (4 \div 4) - (3 \times 0)$</p> <p style="text-align: right;">[3Marks]</p>
9	<p>Choose the answer which is 10 more than the answer to the calculation $(6 - 8) + 5(-7 + (4 + 3))$</p> <p>a) 11</p> <p>b) 8</p> <p>c) 20</p> <p>d) -10</p> <p style="text-align: right;">[3Marks]</p>
10	<p>Given that, $24 \times 7 + 15 = 183$</p> <p>Write down the answers for the following calculations</p> <p>a) $240 \times 7 + 13$</p> <p>b) $24 \times 70 + 25$</p> <p style="text-align: right;">[4Marks]</p>