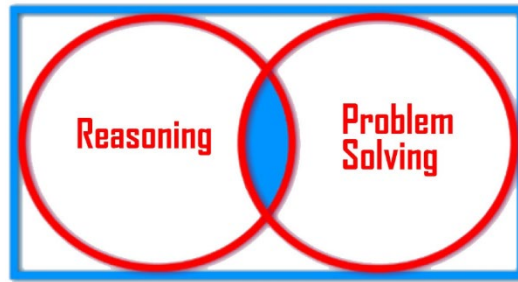


GCSE Foundation (5 – 1)



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Mathematical Reasoning Questions

(Fractions, Decimals and Percentages) – Set 1

**The marks shown are for guidance purposes only
[Total marks: 22 Marks]**

1	<p>Choose the calculations which represent 5% of half of £552?</p> <p>a) $0.5 \times \frac{1}{2} \times 552$ b) $0.05 \times 0.5 \times 552$ c) $\frac{1}{20} \times 0.5 \times 552$ d) $\frac{1}{2}$ of 5% of 552</p> <p style="text-align: right;">[2Marks]</p>
2	<p>Choose the calculations which will give an answer equal to 2.015</p> <p>a) $2 + \frac{1}{10} + \frac{5}{100}$ b) $2 + \frac{1}{100} + 0.0015$ c) $3 - 0.9 - 0.085$ d) $2 + 0.01 + \frac{1}{200}$</p> <p style="text-align: right;">[2Marks]</p>
3	<p>Complete the calculation below by filling in the missing number</p> $5 + \frac{2}{5} - 0.5 - \square = 5.5$ <p style="text-align: right;">[2Marks]</p>
4	<p>Work out 73% + fifty three hundredths – 0.08</p> <p style="text-align: right;">[2Marks]</p>

5 Given that $x > 0.7$ and $y < \frac{2}{5}$
 find the median of the numbers below

0.406, y , x , $\frac{3}{5}$, 0.4,

[2Marks]

6 If $a = 0.1$ and $b = \frac{1}{5}$
 Which of the following is **True**?
 Choose all the correct answers


- a) $b > b^2$
- b) $a > b$
- c) $a = b$
- d) $a < b$

[4Marks]

7 Complete the table below.
 All the variables are single digit whole numbers

Fraction	Decimal	Percentage
$\frac{a}{10}$		
	$0.0x$	
		$yz\%$

[3Marks]

<p>8</p>	<p>What number lies exactly half-way between $\frac{1}{2}$ and $\frac{1}{3}$</p> <p>Choose one answer</p> <p>a) $\frac{5}{6}$</p> <p>b) $\frac{5}{12}$</p> <p>c) $\frac{1}{5}$</p> <p>d) $\frac{6}{5}$</p> <p style="text-align: right;">[2Marks]</p>
<p>9</p> 	<p>Choose a number between 0.2 and 0.3 to make the calculation shown below correct</p> $0.3 + (5 \times \square) - 0.6 = 1$ <p style="text-align: right;">[2Marks]</p>
<p>10</p>	<p>Write down the three fractions which will add up to make 0.541</p> <p>Give your answers in their simplest form</p> <p style="text-align: right;">[1Mark]</p>