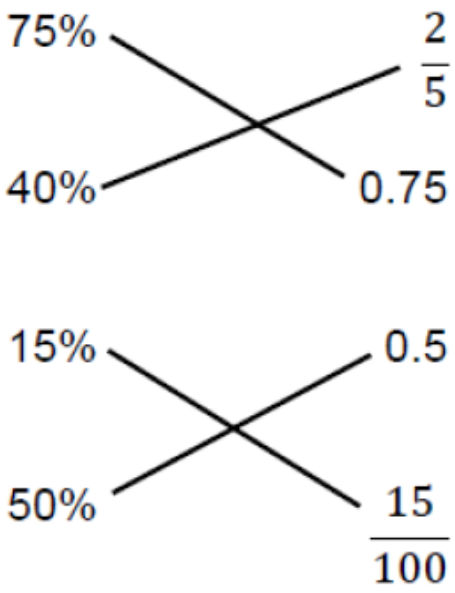
Year 6 – Paper 2: Reasoning – Mark scheme

Question	Mark(s)	Answer	Guidance
1	1	545,392	
2	1	Possible answers: 0 1 2 3	
3	1	Possible answers: 26 and 34 27 and 33 28 and 32 29 and 31	Do not accept 30 and 30
4	2	£105	Award 1 mark if 1 calculation error is made that is followed through correctly in a logical method. Award 1 mark for answer of £87.50
5	1	-2°c	
6	2	a) $\frac{1}{16}$, $\frac{1}{32}$ b) $1\frac{1}{5}$, $1\frac{3}{5}$	Award 1 mark for each sequence. Accept improper fractions for B.
7	1	3	
8	1	$\frac{1}{7}$	
9	1	No. Explanation includes an example to disprove statement e.g. The lowest common multiple of 6 and 9 is 18	
10	2	> < >	Award 1 mark for 2 correct answers

11	2	a) $\frac{3}{5}$ b) $\frac{5}{6}$ c) $\frac{2+6}{3+9}$	Award 1 mark for 2 correct statements.
12	2	64g	Award 1 mark for correct method but wrong answer.
13	2		Award 1 mark for 2 correct lines.
14	2	a) 7 circles added to hundredths b) 1 circle added to thousandths	Award 1 mark if 0.375 is indicated on the page but the grid has not been completed.
15	2	a) Circle 16 in 'Factors of 84' b) 4	
16	2	133	Award 1 mark if for 132r4 or 132 Award 1 mark for incorrect calculation but answer rounded correctly.

17	1	No. Explanation given that a prime number only has 2 factors – itself and one. Two is the only even prime number.	
18	2	$1\frac{3}{12}$ or $\frac{15}{12}$	Award 1 mark for identifying $\frac{7}{12}$ and $1\frac{5}{6}$. Accept any equivalent fraction.
19	2	A	Award 1 mark for correctly solving 2 calculations.