Year 6

Mark Scheme
Autumn

MathsHUBS
White Rose

Year 6 – Paper 1: Arithmetic – Mark scheme

Question	Mark(s)	Answer	Guidance
1	1	1840	
2	1	863	
3	1	6578	
4	1	11240	
5	1	23	
6	1	$\frac{2}{30}$	Accept any equivalent fraction.
7	1	102000	
8	1	27	
9	2	122	Award 1 mark if 1 calculation error is made that is followed through correctly in a logical method.
10	1	$1\frac{3}{10}$ or $\frac{13}{10}$	Accept any equivalent fraction.
11	1	$\frac{2}{5}$	
12	2	$4\frac{1}{12}$	Accept any equivalent fraction. Award 1 mark if 1 calculation error is made that is followed through correctly in a logical method.
13	2	41392	
14	1	3	

15	1	$\frac{2}{12}$	Accept any equivalent fraction.
16	2	$\frac{7}{12}$	Accept any equivalent fraction.

Year 6 – Paper 2: Reasoning – Mark scheme

Question	Mark(s)	Answer	Guidance
1	1	545392	
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 statements.
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	75% — $\frac{2}{5}$ 40% — 0.75 15% — 0.5 50% — $\frac{15}{100}$	Award 1 mark for 2 correct lines.
14	2	a) 7 circles added to hundredths	Award 1 mark if 0.375 is indicated on the page but

		b) 1 circle added to thousandths	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 7/12 and 1 5/6. Accept any equivalent fraction.
19	2	A	Award 1 mark for correctly solving 2 calculations.