

Sparx Maths

Year 7 Baseline Assessment

Mathematics Fluency

Mark Scheme

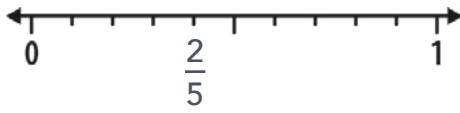
Unless indicated otherwise, a correct answer with no working is awarded full marks.

Question	Answer	Mark	Notes
1	234	1	Accept circled answer
2a	658	1	Accept answer in column method provided
2b	513	1	Accept answer in column method provided
3	6	1	
4	3 squares shaded	1	
5a	800	1	
5b	14	1	
6a	540	1	
6b	7	1	
7	5 x 5 or 5 ²	1	Award if 1 vertical side of the square is labelled 5cm
	25	1	
8	-7	1	Answer may be seen on number line
9	29	1	Accept in any order
	31	1	Accept circled answers
10	0.09, 0.67, 0.7, 0.75	1	Numbers may be seen labelled with the correct order
11	13	1	Accept answer in division method provided
12	2 x 40 + 35 or 80 + 35 or 40 + 40 + 35 or 115 seen	1	
	1.15	1	

Question	Answer	Mark	Notes
13	13, 19 clearly circled	1	Both required for mark Allow 13 and 19 written
14	-2	1	
15a	51.7	1	
15b	1.85	1	
16	Any rectangle with a perimeter of 12 cm, e.g. 1 by 5, 2 by 4, 3 by 3, 2.5 by 3.5	1	
17	$\frac{9}{12}$	1	
	$\frac{3}{4}$	1	
18	$4 > -6$	1	
	$-5 > -7$	1	
19a	Alternative method 1 Grid method Sum of 3 values, with at least 2 correct from 1000, 200, 40 Alternative method 2 Column method Starts process correctly i.e. 0 seen in the correct place value position from multiplication of 5×8 Alternative method 3 Multiply by 10 and divide by 2 $2840 \div 2$	1	Must have 0 in their 2840 Must have 0 in their 2840
	1240	1	

Question	Answer	Mark	Notes
19b	Alternative method 1 Short division $7 \overline{) 34^6 3}$	1	Allow 1 error in their numbers
	Alternative method 2 Long division e.g. $\begin{array}{r} 49 \\ 7 \overline{) 343} \\ \underline{280} \quad 40 \times 7 \\ 63 \\ \underline{63} \quad 9 \times 7 \\ 0 \end{array}$		
	49	1	
20	0.9306	1	Accept circled answer
21	$\frac{4}{5} = \frac{8}{10}$ or $\frac{1}{5} = \frac{2}{10}$	1	
	$\frac{1}{5}, \frac{7}{10}, \frac{4}{5}$	1	Award full marks for $\frac{2}{10}, \frac{7}{10}, \frac{8}{10}$ or equivalent values
22	At least 4 correct from 1, 2, 4, 7, 14, 28	1	
	Complete list	1	No incorrect values
23	$\frac{6}{25}$	1	
24a	5	1	
24b	3	1	
25	1000	1	
26a	6	1	

Question	Answer	Mark	Notes
26b	8	1	
27	4 000 050	1	
28	13 and 19 or 3 and 29	1	
	6 or 26	1	
29	$\frac{3}{15}$	1	
	$\frac{4}{20}$	1	
30	-3.5, -3.441, -3.44, 0.03, 3.09	1	Numbers may be seen labelled with the correct order
31	Missing sides both 5cm	1	May be seen on the diagram or in working
	9 + 2 + 3 + 4 + their missing sides or 9 + 9 + 5 + 5	1	Allow follow through for 2 lengths seen even if incorrect
	28	1	
32	25 500	1	
33	199.999	1	
34a	<p>Alternative method 1 Grid method</p> <p>Sum of 6 values, with at least 4 correct from 4000, 3600, 120, 800, 720, 24</p> <p>Alternative method 2 Column method</p> <p>Sum of 2 values, with at least 1 correct from 7720 and 1544 (o.e)</p>	1	
	9264	1	

Question	Answer	Mark	Notes
34b	1930	1	
35a		1	May be seen labelled as $\frac{4}{10}$ or seen marked with an arrow on the number line
35b	$\frac{3}{10}$	1	
36	14.26	1	
37	35	1	