

11+ GL Mathematics

Paper 1

Answers

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Question	Answer
1	B 11 minutes The bus leaving Wales Farm at 13:10 reaches Willesden at 13:21. This is 11 minutes.
2	D 20% $2/10 = 20/100 = 20\%$.
3	D 45 litres Using the graph, 5 gallons = 22.5 litres. So, 10 gallons = 45 litres.
4	B £36 Normal cost = $8 \times 5 = £40$ 10% of £40 = £4. $40 - 4 = £36$
5	D 135° This is an obtuse angle. 135° is the only obtuse angle in the list.
6	E 15 $90 \div 6 = 15$
7	A 11 mins Calculate the mean. $15 + 7 + 12 + 11 + 10 = 55$ minutes in total $55 \div 5 = 11$ mins on average.
8	C £3.50 250 is 2.5 times greater than 100. $2.5 \times 1.4 = 3.50$.
9	C 0.032 Move the decimal 3 places to the left.
10	D 150 years In 1800 the population was 10 million. In 1950 the population was 45 million. $1950 - 1800 = 150$ years.
11	E 63 $72 \div 8 = 9$ marbles are taken out. $72 - 9 = 63$ marbles left.
12	D 7608
13	D They are all square numbers

	$4 = 2^2$ $81 = 9^2$ $144 = 12^2$																																								
14	<p>A 177 cm</p> $153 + 24 = 177 \text{ cm}$																																								
15	<p>B 4.55 litres</p> $7 \times 650 = 4500 \text{ ml}$ $4500 \div 1000 = 4.55 \text{ L}$																																								
16	<p>E 64</p>																																								
17	<p>A 21</p> <p>3 parts red apples + 1 part green apples = 4 parts in total. $28 \div 4 = 7$ 1 part $7 \times 3 = 21$ red apples.</p>																																								
18	<p>C 175</p> $10\% = 250 \div 10 = 25$ $25 \times 7 = 175$																																								
19	<p>D 20</p> <p>The lowest common multiple of 5 and 4 is 20.</p>																																								
20	<p>C 1275</p>																																								
21	<p>D 8.75</p> <p>Both inputs are 10 times smaller so the output must be 100 times smaller when multiplying.</p>																																								
22	<p>B 35 boxes</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tbody> <tr><td></td><td></td><td>0</td><td>3</td><td>5</td></tr> <tr><td>2</td><td>2</td><td>7</td><td>7</td><td>0</td></tr> <tr><td></td><td>-</td><td>0</td><td></td><td></td></tr> <tr><td></td><td></td><td>7</td><td>7</td><td></td></tr> <tr><td></td><td>-</td><td>6</td><td>6</td><td></td></tr> <tr><td></td><td></td><td>1</td><td>1</td><td>0</td></tr> <tr><td></td><td>-</td><td>1</td><td>1</td><td>0</td></tr> <tr><td></td><td></td><td></td><td></td><td>0</td></tr> </tbody> </table>			0	3	5	2	2	7	7	0		-	0					7	7			-	6	6				1	1	0		-	1	1	0					0
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23	<p>B 4 hours</p> <p>Rain covers one third of the pie chart. $12 \div 3 = 4$ hours.</p>																																								

24	A 33 33 x 100 = 3300. So, 33 x 99 will simply be 33 less than 3300.
25	B 8 children 20 children took the bus which is 5 blocks. Each block is $20 \div 5 = 4$ children. The difference between bicycle and car is 2 blocks which is 8 children.
26	D 4.5 kg $5 \times 3.7 = 18.5$ $4 \times 3.5 = 14$ $18.5 - 14 = 4.5$ kg
27	B 25% One quarter of the circle is shaded. This is 25%.
28	B 8071
29	C 50 ships Dock A has $3 \times 20 = 60$ ships. Dock C has $20 \div 2 = 10$ ships. $60 - 10 = 50$ ships.
30	A 3 thousands
31	C (6 , 3)
32	D 96 The number doubles every term. $48 \times 2 = 96$.
33	C 2948 $3048 - 100 = 2948$
34	C 30 sweets $1 - \frac{3}{8} = \frac{5}{8}$ sweets left. $48 \div 8 \times 5 = 30$ sweets left.
35	D 18 numbers The numbers you can make are: 333, 335, 343, 345, 353, 355, 433, 435, 443, 445, 453, 455, 533, 535, 543, 545, 553, 545. 18 numbers.
36	E 10 hours Watching TV = 7 hours Reading = 3 hours $7 + 3 = 10$ hours

37	B 20 weeks $35 \div 2 = 17.5$ So, $35 \div 20 = 1.75$
38	D 8 squares Area of small square = $2 \times 2 = 4 \text{ cm}^2$ Area of large rectangle = $8 \times 4 = 32 \text{ cm}^2$ $32 \div 4 = 8$ squares will fit.
39	B 20 cm Centre of the circle to the circumference is the radius. The radius is half of the diameter. Radius = $40 \div 2 = 20 \text{ cm}$
40	B (2 , -5) Reflection in the y-axis would move x to (2 , 5) Then, reflection in the x-axis would move x to (2 , -5)
<i>Total</i>	/40

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