

ISEB Common Pre-Test Mathematics Paper 1 Answers

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Question	Answer
1	A 5 $10 \div 2 = 5$
2	D 10 10 is a multiple of 2 and 10
3	B 18.9 $2.1 \times 9 = 18.9$ kg
4	C 77.3 $231.9 \div 3 = 77.3$
5	E 33.4 The 1 in the hundredth's place rounds down.
6	C 23.97 cm $24.3 - 0.33 = 23.97$ cm
7	D Trapezium The shape has 1 pair of parallel sides - a key sign of a trapezium.
8	D £84 $20\% \text{ of } 70 = \text{£}14$ $70 + 14 = \text{£}84$
9	A £16 $41 - 25 = \text{£}16$
10	B 7 $20\% \text{ of } 35 = 7$
11	D 10 $8 + 4 + 12 = 24$ $24 - 14 = 10$ coins left
12	C $\frac{1}{40}$ Multiply the numerators together and the denominators together to get $\frac{1}{40}$
13	B £1.95 $12.40 + 3.65 + 0.55 + 0.55 + 0.9 = \text{£}18.05$ $20 - 18.05 = \text{£}1.95$
14	E 12 mm^2 Area = base x perpendicular height $\div 2$

	$= 6 \times 4 \div 2 = 12 \text{ mm}^2$
15	A 6g Each new term is 8 less than the previous term.
16	D 28p $1.96 \div 7 = \text{£}0.28$ or 28p
17	E 1/3 1 even number out of 3
18	B 2 $3 + 3b = 9$ $3b = 6$ $b = 2$
19	B 16 Each new term is twice that of the previous term
20	D r + 18 Anna has 18 more than r
21	E 3 $(3 + 0) + (3 \times 2) + 3 + (3 \times 4) + (3 \times 6) = 39$ There are 13 students in total $39 \div 13 = 3$
22	B 39 people Cars: $5 \times 3 = 15$ Vans: $3 \times 8 = 24$ $24 + 15 = 39$
23	C 6 hours She prepares 2 kg dough in 1 hour So she can prepare 12 kg dough in 6 hours
24	C 3 Mode - most common number
25	D £683 $704 - 21 = \text{£}683$
26	A 8:17 Ratio: $16:34 = 8:17$
27	B £300 $10 + 7 + 7 + 6 = 30$ hours total $30 \times 10 = \text{£}300$
28	E 57

	$14 + 18 + 25 = 57$ highlighters in total
29	B 16 m^2 Average of the parallel sides = $(2 + 6) \div 2 = 4$ $4 \times 4 = 16 \text{ m}^2$
30	B 3:30 pm 30 min + 1 hours + 30 min = 2 hours 2 hours before 5:30 = 3:30
31	C hundreds
32	E 17,004 $4251 \times 4 = 17\ 004$
33	A 504 $42 \times 12 = 504$ months
34	C 42° $90 + 48 = 138^\circ$ $180 - 138 = 42^\circ$
35	D 65% 20 is $\frac{1}{5}$ of 100 So, $13 \times 5 = 65\%$
36	B Cylinder
37	E £3.50 Breakfast: $0.90 + 0.85 = \text{£}1.75$ Lunch: $1.65 + 2.90 + 0.7 = \text{£}5.25$ $5.25 - 1.75 = \text{£}3.50$
38	D 266 $3 + 4 + 7 = 14$ packs total $19 \times 14 = 266$ bouncy balls
39	B 38 $14 + 4 + 20 = 38$ beads
40	D 50.24 ft^2 Area = $\pi \times r^2$ = 3.14×4^2 = 50.24 ft^2
41	B 8 $27 \div 3 = 9$ So the consecutive numbers must be 8, 9, 10
42	B £94

	<p>20% of 95 = £19 75 + 19 = £94</p>
43	<p>A 10 4 + 6 = 10 people</p>
44	<p>C 2 28 + 15 + 28 = 71 71 - 9 - 60 = 2 stickers left</p>
45	<p>C 473 cm² Big rectangle: 29 x 25 = 725 cm² Small rectangle: 18 x 14 = 252 cm² 725 - 252 = 473 cm²</p>
46	<p>A 42,300 g 42.3 x 1000 = 42,300 g</p>
47	<p>D £12 25 + 7 = £32 32 - 4 - 4 - 12 = £12</p>
48	<p>E 64 Cars: 14 x 4 = 56 Bicycles: 4 x 2 = 8 56 + 8 = 64</p>
49	<p>C 27 blocks 5 + 8 + 5 + 9 = 27 blocks</p>
50	<p>E 88 cm² Big cuboid: 5 x 8 x 2 = 80 cm² Small cuboid = 4 x 2 x 1 = 8 cm² 80 + 8 = 88 cm²</p>
Total	/50

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