

Assessment Test 3

Work as quickly and as carefully as you can.

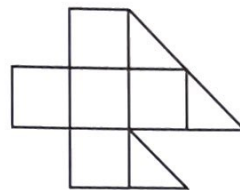
You can print **multiple-choice answer sheets** for these questions from our website — www.cgpbooks.co.uk/11plus/answer-sheets or scan the QR code on the right.

If you'd prefer to answer them in standard write-in format, either write your answers in the spaces provided or circle the **correct answer** from the options **A** to **E**.

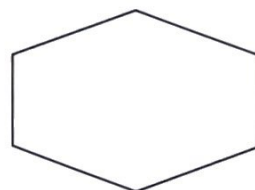


1. Each of the small squares in the shape on the right has an area of 1 cm^2 .
What is the total area of the shape?

Answer: _____ cm^2



2. How many lines of symmetry does the hexagon on the right have?
A 1 **B** 2 **C** 3 **D** 4 **E** 6



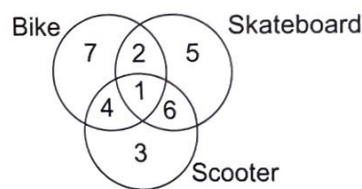
3. Which unit is most suitable for measuring the length of a football pitch?
A centimetres **C** metres **E** litres
B millimetres **D** kilometres

4. Elsa counts the vehicles that pass her school during her lunchtime. The pictogram shows her results.
How many buses did she see? Answer: _____

Vehicle type	Number of vehicles
Car	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Van	<input type="checkbox"/> <input type="checkbox"/>
Bus	<input type="checkbox"/> <input type="checkbox"/>
Taxi	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

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5. The Venn diagram on the right shows how many children in a class have bikes, skateboards and scooters.
How many children have a skateboard and a scooter, but not a bike?
Answer: _____



6. Maddy buys a tomato salad, some coleslaw and a jacket potato.
How much change will she receive from a £5 note?
A £1.64 **B** £2.16 **C** £3.36 **D** £33.60 **E** £3.63

Salad bar	
Coleslaw	25p
Green salad	80p
Tomato salad	40p
Rice salad	50p
Potato salad	45p
Jacket potato	99p
Rice	85p

7. Which of the following times is the same as 13:45?
A 1:45 pm **B** 2:45 am **C** 1:45 am **D** 3:45 pm **E** 2:45 pm

8. Sasha starts her homework at 4:20 pm. She can stop and go to visit her friend when she has done $1\frac{3}{4}$ hours of homework.
What time can she visit her friend? Answer: _____ pm

9. What is $9.45 \div 1.5$?

A 3.6 **B** 14.175 **C** 630 **D** 6.3 **E** 63

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Carry on to the next question → →

10. Which is the most likely mass of a tin of soup?
A 0.4 g **B** 400 g **C** 40 kg **D** 4 kg **E** 4 g

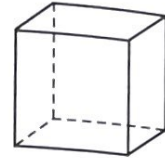
11. This chart shows the number of boys and girls in each year group in a school.
 How many children are in the biggest year group?

Year Group	Boys	Girls
3	49	50
4	52	56
5	55	57
6	54	59
7	10	20

Answer: _____

12. What is the sum of the numbers of faces, edges and vertices of a cube?

Answer: _____



13. $90 \times 80 = 7200$

What is 90×0.08 ?

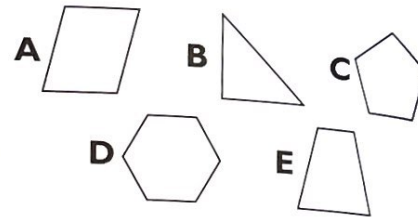
Answer: _____

14. 1.75 pints = 1 litre. How many pint bottles would you need to hold 6 litres of water?

Answer: _____

15. Which of the shapes on the right has exactly one pair of parallel sides?

Answer: _____



16. Ben makes this pattern by repeating three shapes over and over again.
 How many hearts will there be in the first 20 shapes?

A 6 **B** 7 **C** 3 **D** 8 **E** 4



17. A group of children have a competition to see who is fastest at running from one end of the playground to the other.

The results are shown in the table on the right.

Who came second?

Answer: _____

Name	Time
Betsy	4 mins 18 secs
Cara	3 mins 59 secs
Ian	4 mins 2 secs
Sian	4 mins 20 secs
Tony	4 mins 27 secs

18. Ian buys 6 sandwiches costing £1.99 each and 3 drinks costing 49p each.

He does this calculation to estimate the cost: $6 \times £2 + 3 \times £0.50$

How does his estimate differ from the exact cost?

A £12 too much **C** 12p too little **E** 6p too much
B 9p too much **D** 9p too little

19. $349 \times 84 = 29\,316$

What is 349×42 ?

A 7329 **B** 146 580 **C** 17 264 **D** 58 632 **E** 14 658

20. What fraction of the faces on a fair, six-sided dice show prime numbers?

A $\frac{1}{2}$ B $\frac{5}{6}$ C $\frac{4}{6}$ D $\frac{1}{3}$ E $\frac{2}{3}$



21. Look at these fractions.

$\frac{7}{20}$ $\frac{3}{4}$ $\frac{1}{5}$ $\frac{3}{20}$ $\frac{5}{20}$

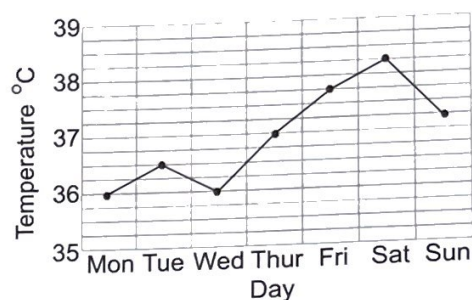
Which of the following shows them arranged from smallest to largest?

A $\frac{3}{20}$, $\frac{1}{5}$, $\frac{5}{20}$, $\frac{3}{4}$, $\frac{7}{20}$
 B $\frac{3}{20}$, $\frac{1}{5}$, $\frac{5}{20}$, $\frac{7}{20}$, $\frac{3}{4}$
 C $\frac{3}{20}$, $\frac{3}{4}$, $\frac{1}{5}$, $\frac{5}{20}$, $\frac{7}{20}$
 D $\frac{3}{4}$, $\frac{7}{20}$, $\frac{5}{20}$, $\frac{1}{5}$, $\frac{3}{20}$
 E $\frac{1}{5}$, $\frac{3}{20}$, $\frac{5}{20}$, $\frac{7}{20}$, $\frac{3}{4}$

22. The temperature of a patient at 9 am each day was recorded and plotted on a graph.

What is the difference between the highest and the lowest temperatures?

Answer: _____ °C



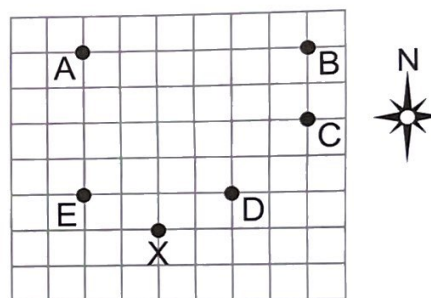
23. Sue's car uses 5 full tanks of petrol to travel 2985 miles.
How many miles can she travel on one full tank of petrol?

Answer: _____ miles

24. Jenny is standing facing north at the point marked X on the grid.

She moves 3 units forward, then makes an anticlockwise turn through 135°. Which letter is she now facing?

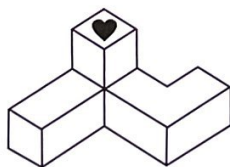
Answer: _____



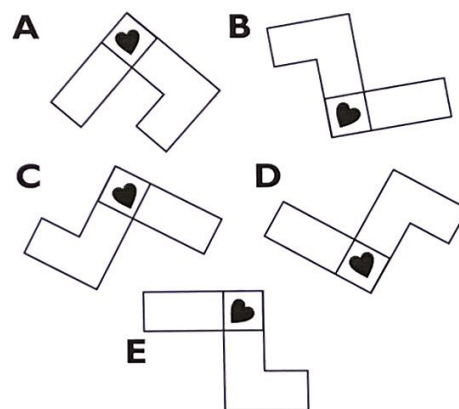
25. Which number should go in the circle to make this equation correct?

$$4 \times 56 + \bigcirc \times 56 = 560 \quad \text{Answer: } \underline{\hspace{2cm}}$$

26. Which diagram on the right shows how this 3-dimensional shape would look when viewed from directly above?



Answer: _____



27. John thinks of a number. He multiplies it by 11 and subtracts 9.
The answer he gets is 112.

What number did he start with?

Answer: _____

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Carry on to the next question → →

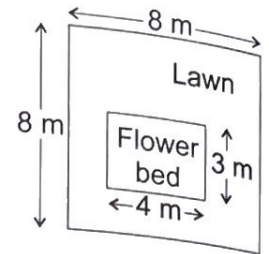
28. This table shows the number of awards each class were given.
What is the mean number of awards?

Class	6A	6B	6C	6D	6E	6F
Number of awards	16	16	11	17	12	12

Answer: _____

29. The diagram shows a garden with a flower bed.
What is the area of the lawn?

Answer: _____ m²



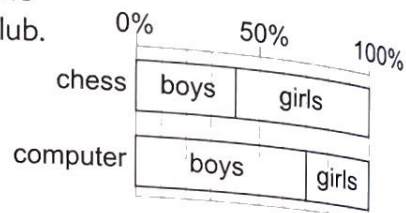
30. Luke started at -5 and counted up in steps of 1.5 .
Which of the following numbers did he count?

A -1 **B** 0 **C** 2 **D** 3 **E** 4

31. The chart on the right shows the proportions of boys and girls in the chess club and the computer club. There are 30 children in each club.

How many more boys than girls are there in the computer club?

Answer: _____



32. Sarah has run a total distance of 168 km over a 12 week period.
How far does she run each day if she runs the same distance each day?

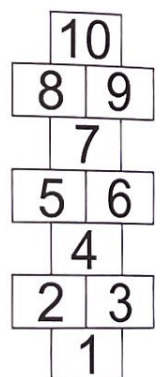
Answer: _____ km

33. On Saturday April 23rd, Claire's father tells her that it is 6 weeks until they go on holiday. They are going on holiday on a Saturday.
What date will this be?

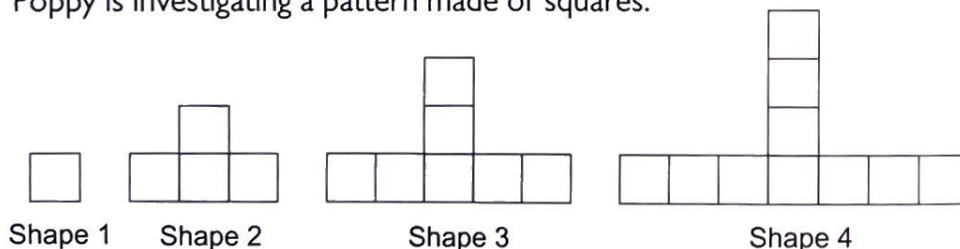
A 1st June **B** 2nd June **C** 3rd June **D** 4th June **E** 5th June

34. On the right is a hopscotch grid. The sum of the numbers on the grid is 55.
The grid is extended so that the greatest number at the top of the grid is 20.
What is the sum of all the numbers on the grid?

Answer: _____



35. Poppy is investigating a pattern made of squares.



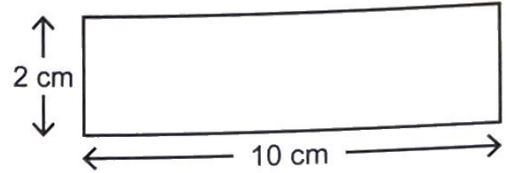
How many squares will be in the shape 11 of the pattern?

Answer: _____

36. Caleb pours $\frac{2}{5}$ of a litre of water out of a full 10 litre bucket.
How many millilitres are left in the bucket?
A 960 ml **B** 9600 ml **C** 96 ml **D** 6000 ml **E** 4000 ml

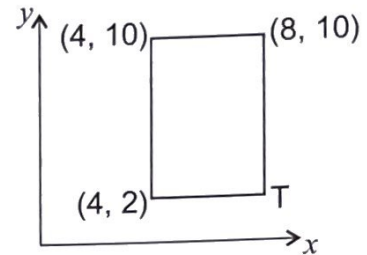
37. The rectangle on the right is enlarged by a scale factor of 2.
What is the area of the enlarged rectangle?

Answer: _____ cm²



38. The diagram shows the coordinates of three corners of a rectangle.
What are the coordinates of corner T?

Answer: (____, ____)



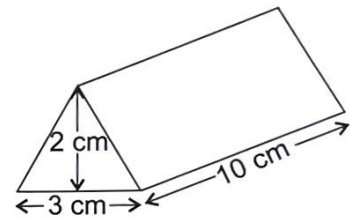
39. A school holds a concert. There are 42 rows of 48 seats.
How many seats are there?

Answer: _____

40. Volume of a triangular prism = area of triangular side × length

What is the volume of this triangular prism?

Answer: _____ cm³



41. Which number is exactly half-way between 4.19 and 3.81?

A 4.1 **B** 4 **C** 3.9 **D** 3.09 **E** 4.09

42. The perimeter of a rectangular floor tile is 128 cm.
The tile is three times as long as it is wide. What is its length?

Answer: _____ cm

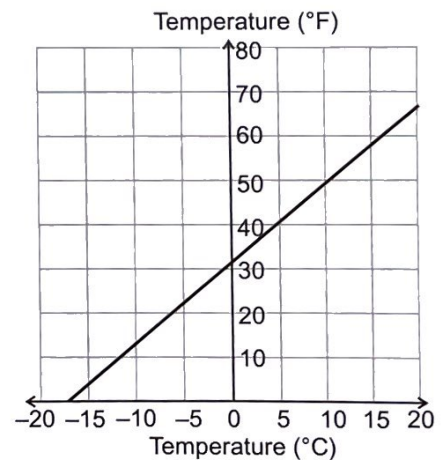
43. Sleeping bags are given a rating to show the minimum temperature they can be used at:

Sleeping bag rating	1	2	3	4	5
Minimum temperature (°C)	5	0	-5	-10	-15

Adam needs to buy a sleeping bag that he can use at 25 °F.
The graph on the right can be used to change a temperature in °F to a temperature in °C.

What is the lowest rating of sleeping bag Adam can buy?

Answer: _____



44. The ages in months of four out of the six babies at a clinic are given below.

6	3	8	2
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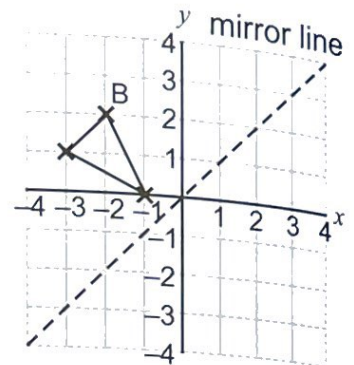
The mean age of the six babies is 5 months.

Which of the following could be the ages in months of the fifth and sixth babies? Circle the correct answer.

- A** 8 and 12 **B** 1 and 2 **C** 2 and 8 **D** 6 and 5 **E** 3 and 4
45. How many degrees does the minute hand on a clock turn through between 12 noon and 10:30 pm?
- A** 3160° **B** 3780° **C** 2300° **D** 2430° **E** 3600°

46. The shape on the grid is reflected in the mirror line. What are the new coordinates of point B?

Answer: (____, ____)



47. A printer uses the following formula to work out the cost, C , in pounds, of printing m leaflets:

$$C = 15(m \div 100) + 5.$$

How much will it cost to have 300 leaflets printed?

Answer: £ _____

48. James records the weather for 20 days. He draws a pie chart of his results. It was foggy for 3 days. What size angle should he draw to represent this?
- A** 90° **B** 54° **C** 36° **D** 45° **E** 180°

49. Rashid gets £2.50 pocket money each week. He is given an extra 30% pocket money if he cleans the family car.

How much money will he receive over 3 weeks if he cleans the car each week?

Answer: £ _____

50. Russell wins £500 in a prize draw. He spends £260 on a new computer, and decides to buy some games that cost £39.99 each.

Which expression gives the amount of money Russell will have left if he buys n games?

- A** $240n$
B $500 - 260n$
C $240 + 39.99n$
D $240 - 39.99n$
E $500 - 39.99n$