Assessment Test 2

Allow 50 minutes to do this test. Work as quickly and as carefully as you can.

You can print **multiple-choice answer sheets** for these questions from our website —
go to 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
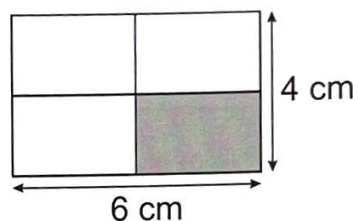the spaces provided or circle the **correct answer** from the options **A** to **E**.

Answer Sheets

1. This circle has been split into equal parts. What fraction has been shaded?

   A $\frac{5}{8}$ **B** $\frac{1}{3}$ **C** $\frac{6}{9}$ **D** $\frac{3}{8}$ **E** $\frac{6}{18}$

2. Which of the following is most likely to be the weight of a small can of baked beans?

   A 250 g **B** 2.5 kg **C** 2.5 g **D** 2500 g **E** 25 g

3. The diagram shows a rectangular flag. It is split into four equal rectangles. What is the area of the shaded rectangle?

   A 6 cm² **C** 12 cm² **E** 20 cm²
   B 10 cm² **D** 24 cm²
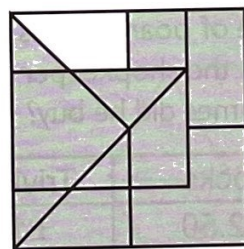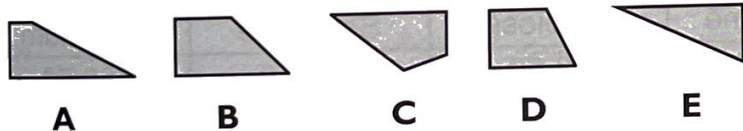
   4 cm
   6 cm

4. Bill goes to a car rally. He keeps a note of the race times of the cars in minutes:

   122, 133, 142, 154, 122, 156, 134

   What is the difference between the longest race time and the shortest race time?
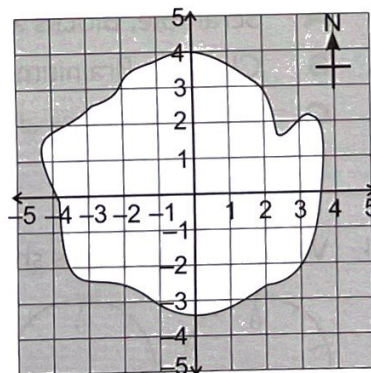
   Answer: _____ minutes

5. Tahsin is doing a shape puzzle. Which of the pieces below will complete the puzzle?

   A   **B**   **C**   **D**   **E**

6. The grid shows a small island. Adam goes for a walk starting at (–3, –2). He travels four squares north and two squares east. What are the coordinates of the point that he reaches?

   Answer: (___ , ___)

7. Which of these numbers is 21²?

   A 42 **B** 441 **C** 4410 **D** 4200 **E** 44110

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Carry on to the next question → →

8. Caley is counting the cars that pass in front of her house.
   Her sister has told her that for every seven cars she counts,
   she can expect three of them to be red.
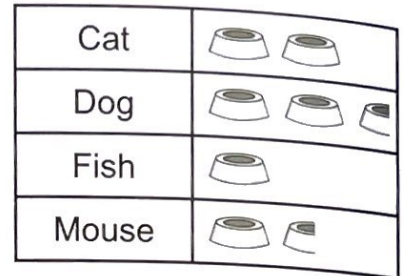   If Caley counts 63 cars, how many can she expect to be red?   Answer: _____

9. What number is halfway between 45.6 and 45.9?

   A 45.75   **B** 45.80   **C** 45.65   **D** 45.85   **E** 45.70

10. Sarinder asked her classmates what their favourite pet was.
    She recorded her results in the pictogram. How many
    more people liked dogs than fish?

    Answer: _____

    | Cat | 🥣 🥣 |
    | Dog | 🥣 🥣 🥣 |
    | Fish | 🥣 |
    | Mouse | 🥣 🥣 |

    🥣 = 4 people

11. Which of these numbers does not divide into 90?
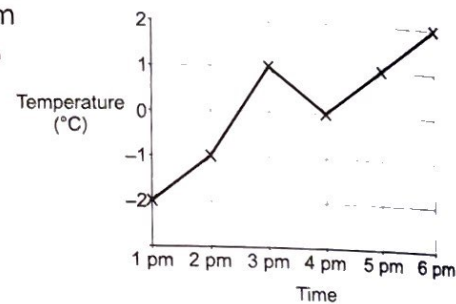
    A 2   **C** 5   **E** 9
    B 3   **D** 7

12. Mr Attenbar lives in the Arctic. He returned to his cabin at 1 pm
    and put the fire on. After a while he went outside and forgot to
    close the door behind him. He then came back in and closed
    the door again.

    This graph shows the temperature inside the cabin.
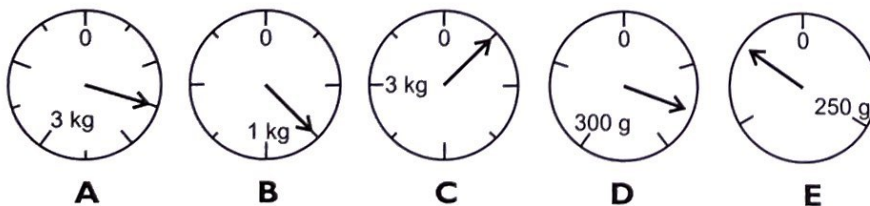   What time did he go outside?
    Answer: _____

13. The price of board games in a shop is shown in the table.
    Jack gives the shopkeeper £30.00 and gets 50p change.
    Which games did he buy?

Blocks	Trivia Time	Clueless	Scramble	Brainium
£12.50	£10.50	£6.50	£11.50	£9.50

    A Scramble, Blocks and Trivia Time   **D** Scramble, Blocks and Clueless
    B Clueless, Brainium and Trivia Time   **E** Scramble, Clueless and Trivia Time
    C Blocks, Clueless and Trivia Time

14. Which of these dials shows 750 g?

    A   **B**   **C**   **D**   **E**

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15. Where does the number 26 belong in this sorting table?

	Even numbers	Odd numbers
Multiples of 3	18 12	3 15
Multiples of 7	28 14	7 49

   A top left hand box   **D** bottom right hand box

   B bottom left hand box   **E** none of these

   C top right hand box

16. 50 people were asked what colour their car was. 16 people said blue. What percentage of people did not say blue?

Answer: _____%

17. Which of these calculations will give an odd number as the answer?

   A 113 × 115   **C** 436 × 812   **E** 672 + 998

   B 142 × 623   **D** 147 + 189

18. A scarf is 45 cm long. Jade buys 20 scarves.
What is the total length of the scarves?

   A 90 m   **B** 600 cm   **C** 9 m   **D** 14 m   **E** 450 cm

19. The table shows the number of prizes won by Ester at Bingo in a week.

Ester won 32 prizes altogether. How many prizes did she win on Thursday?
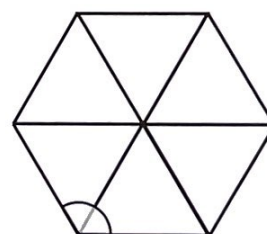
Answer: _____

Day	Number of prizes
Monday	5
Tuesday	8
Wednesday	4
Thursday	
Friday	6

20. Harry paints a large flag on the side of his house. He uses 3 litres of red paint, 4 litres of blue paint and 5 litres of white paint. What percentage of the paint was red?

Answer: _____%

21. Fiona arranges 6 equilateral triangles to make the shape shown.
What is the size of the shaded angle?

Answer: _____ °

22. Carrie buys 4 chocolate bars at 49p each, and 7 bags of peanuts at 29p each. How much does she spend in total?

   A £1.96   **B** £2.03   **C** £3.99   **D** £4.90   **E** £4.10

23. Ten children in Class 6 were asked to give their favourite colour.
The results are written in this list:

red, blue, green, silver, purple, red, gold, gold, green, red

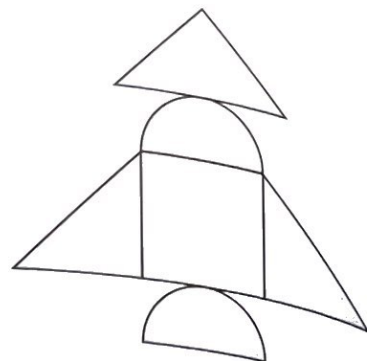What percentage of the children chose red as their favourite colour?

Answer: _____%

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Carry on to the next question → →

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24. Lucy has some paper circles and some paper squares which she uses to make a rocket. She cuts some of the shapes in half. The squares have sides of 4 cm and the circles have areas of 10 cm². What is the area of her rocket?

Answer: _____ cm²

25. Elsa has a bag of sweets containing 7 chocolate drops, 8 toffees and 3 liquorice laces.

She takes out 2 sweets at random and eats them. They are both chocolate drops. What fraction of the remaining sweets are toffees?

A ⅜   B ½   C ¾   D ⅕   E $^8/_{18}$

26. Mrs Burton often catches the bus from her home into town. Sometimes she takes bus A, and sometimes she takes bus B. The first stop is outside her house and the last stop is in town. How long does the longest bus ride take?

A   112 minutes   C   69 minutes   E   59 minutes
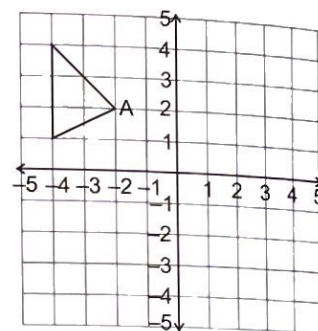
B   99 minutes   D   72 minutes

Bus A	Bus B
09:44	11:39
09:52	11:45
10:31	12:16
10:56	12:48

27. A plant grows 0.025 m every 6 months. It is 1.5 m tall. How many years will it take to reach 2 m?

Answer: _____

28. Ben places a mirror on the *y*-axis of this graph. What are the coordinates of the reflected point A?

A   (3, 2)   C   (1, 4)   E   (2, 2)

B   (−2, −2)   D   (3, 0)

29. Which of the following statements is incorrect?

A   8 divided by 4 is a prime number.   D   64 divided by 16 is a square number.

B   3 multiplied by 44 is an odd number.   E 3^3 is greater than 5^2.

C   2 added to 47 is a multiple of 7.

30. 40 girls and boys played in a football tournament. The number of goals and saves made during the tournament were recorded in the table.

How many saves were made in total?

Answer: _____

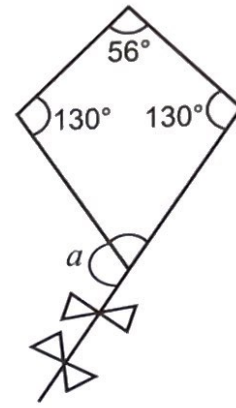|	Girls	Boys	Total
Goals		4	
Saves	14		
Total	24		44

31. Bernard is running from Land's End to John O'Groats. The distance is 874 miles. If he runs 25 miles a day, how many days will it take him to run the distance?

A   36   B   27   C   32   D   35   E   26

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32. The diagram shows three of the angles on a kite.
What is the size of angle *a*?

Answer: _____ °

56°

130° 130°

a

33. | 23 × 14 = 322 |

What is 46 × 140?

A 1288   **C** 64 400   **E** 12 888
B 3220   **D** 6440

34. Raj is buying 2 family tickets for a concert.
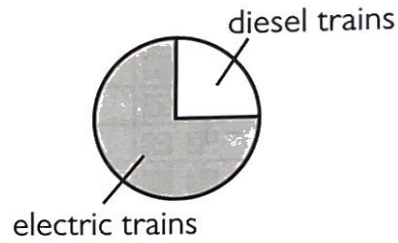How much does he spend?

Answer: £ _____

Concert Tickets
Adults   £3.50
Children   £1.50
20% discount for family ticket
(2 adults and 2 children)

35. Which of the following statements is true?

A $7/100 > 3/4$ **C** $7/100 > 0.09$ **E** $0.65 < 0.09$
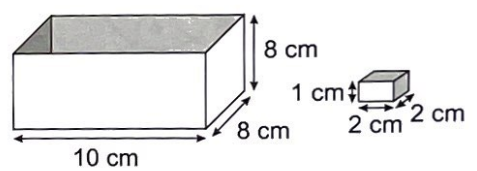**B** $7/100 > 0.65$ **D** $0.65 < 3/4$

36. Louis went train spotting.
He drew a pie chart to show how many diesel trains
and how many electric trains he saw.
What ratio of diesel trains to electric trains did he see?
Write your answer in its simplest form.

diesel trains

electric trains

Answer: _____ : _____

37. Bill has a packing box that measures 10 cm × 8 cm × 8 cm.
He fills it with matchboxes that measure 2 cm × 2 cm × 1 cm.
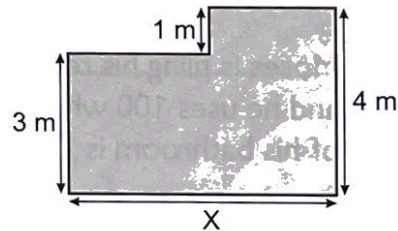How many matchboxes can he fit in the packing box?

Answer: _____

8 cm
1 cm
8 cm
2 cm 2 cm
10 cm

38. A barrel contains 4 litres of water. There are 5 holes in the bottom
of the barrel, and each hole loses 80 ml of water each hour.
How many hours will it take for the barrel to completely empty?

A 9 hours   **B** 10 hours   **C** 11 hours   **D** 12 hours   **E** 13 hours

39. Yohan joined two rectangles together to make this shape.
The perimeter of the shape is 21 metres. What is the length of X?

Answer: _____ m

1 m
3 m   4 m
X
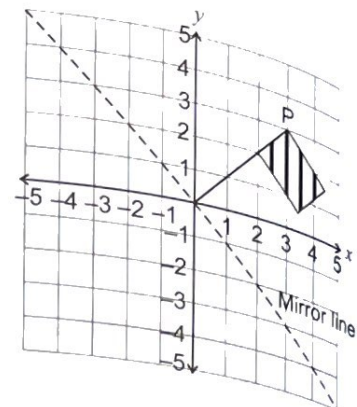
40. A sequence is described by the rule $3n^2 + 1$.
What are the first two terms in the sequence?

A 1, 3   **B** 4, 13   **C** 7, 13   **D** 10, 37   **E** 4, 7

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Carry on to the next question → →

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41. This flag is reflected across the mirror line shown.
    What will be the new coordinates of point P?   Answer: (___ , ___)

42. Mark has 3 cubes of cheese with sides of 2 cm. A mouse eats
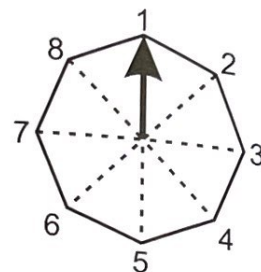   12 cm³ of the cheese. What volume of cheese does Mark have left?

    Answer: _____ cm³

43. Lemone is opening up a plant stall in the market. She buys the
    stall (S) and boxes of cactus plants (C) to sell. Each box
    contains 12 cactus plants and Lemone buys 60 cactus plants altogether.
    Which expression shows the total cost?

    A $12SC$ **B** $S + 5C$ **C** $SC + 12$ **D** $5SC$ **E** $S + 60C$

44. The arrow on the spinner is pointing at number 1.
    Charlotte spins the arrow round 315° anti-clockwise.
    Which number is the arrow pointing at now?

    Answer: _____

45. Which expression gives the nth term of this sequence?

    −1, −1, −1, −1, −1

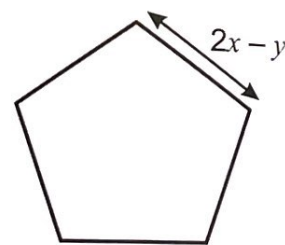   **A** $2n - 3$ **C** $n^2 - n$ **E** $(n - 1)^2$
    B $n - 1$ **D** $n - (n + 1)$

46. Duncan has £2.73. He has the same number of 2p and 1p coins,
    and these are the only coins that he has. How many 1p coins
    does he have?

    Answer: _____

47. The diagram shows a regular pentagon. Which of the following
    is an expression for the perimeter of the pentagon?

    A $8x - 4y$ **C** $5x - 5y$ **E** $2x + 5y$
    B $(2x - y) + 5$ **D** $10x - 5y$

48. There are 22 children and 7 adults at a party. Sherrie cooks 3 sausage rolls
    for each child and 5 sausage rolls for each adult. If the sausage rolls come
    in packets of 25, how many packets will Sherrie need to buy?

    Answer: _____

49. Moses is tiling his rectangular bathroom floor. Each tile is 0.04 m²
    and he uses 100 whole tiles to cover the entire floor. If the width
    of his bathroom is 1 m, what is the length of his bathroom?

    A   2 m   **B**   4 m   **C**   7 m   **D**   5 m   **E**   6 m

50. Which of these expressions equals $3x + 18y$?

    A $3(6xy)$ **C** $21x - 3y$ **E** $2x + x + 3y^2$
    B $6(x + 3y)$ **D** $3(x + 6y)$

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End of Test