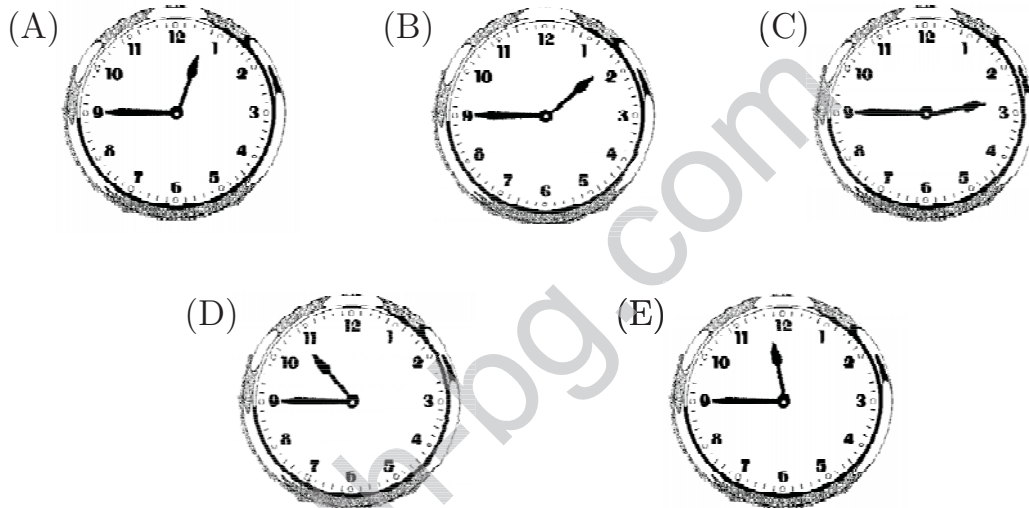# Upper Primary Division

Questions 1 to 10, 3 marks each
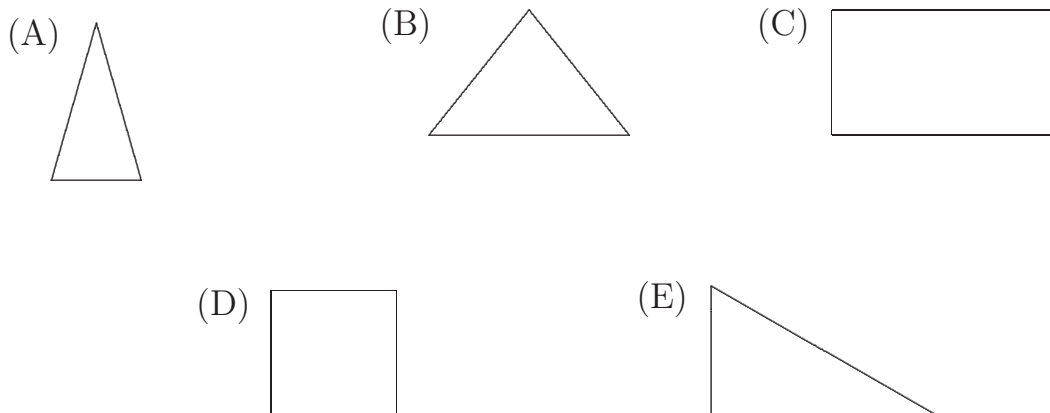
1. Which of these numbers is the largest?

(A) 8   (B) 800   (C) 200   (D) 80   (E) 280
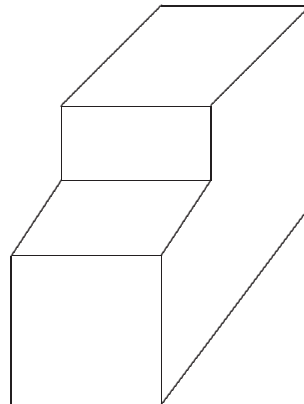
2. Which clock shows the time 2:45?

(A)   (B)   (C)

(D)   (E)

3. Ben cuts an equilateral triangle into two identical pieces. Which of these shapes could be one of those pieces?

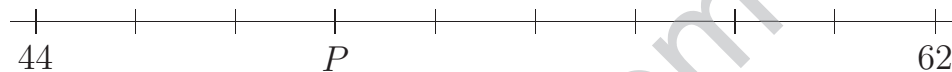(A)   (B)   (C)

(D)   (E)

4. How many faces does this solid have?

(A) 5   (B) 7   (C) 8

(D) 9   (E) 12

5. Most of the numbers on this scale are missing.

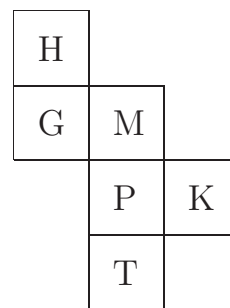Assuming that the scale is uniform, the point P corresponds to a reading of

(A) 47   (B) 48   (C) 50   (D) 52   (E) 56

6. Which of the following is less than one half?

(A) $\dfrac{7}{12}$ (B) 52%   (C) 0.65   (D) $\dfrac{2}{5}$ (E) 0.7

7. A net of a cube is shown in the diagram. When this net is made into a cube, the letter opposite H is

(A) G   (B) T   (C) P   (D) M   (E) K

8. Instead of multiplying 25×84, Brendan calculated 100×84. From this result, what can he do to get the correct answer?

(A) Divide by 4   (B) Multiply by 4   (C) Subtract 75

(D) Add 75   (E) Divide by $\dfrac{1}{4}$

UP 3

9. 12 tens and 34 hundreds is equal to

(A) 1234   (B) 3520   (C) 3412   (D) 34120   (E) 352
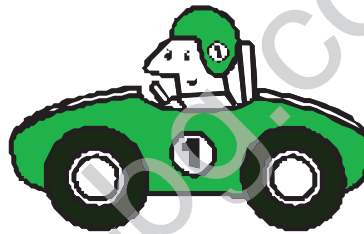
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10. In the number square shown, all rows and all columns add to the same total. The missing numbers are

(A) 2 and 3   (B) 3 and 4   (C) 3 and 11

      (D) 11 and 12   (E) 12 and 13

7	6	?
?	8	4
5	10	9

Questions 11 to 20, 4 marks each

11. A car travels at 80 kilometres per hour. How far does it travel in 75 minutes?

(A) 60 km   (B) 80 km   (C) 100 km   (D) 120 km   (E) 155 km

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12. Each child in the Thomas family has at least two sisters and one brother. What is the least number of children in the family?
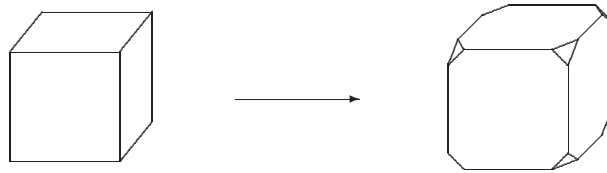
(A) 3   (B) 4   (C) 5   (D) 6   (E) 7

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13. Jet boat rides are advertised as follows:-

Adults	**$ 55**
Children (14 and under)	**$ 35**
Family (2 adults & 2 children)	**$ 140**

The cheapest price for a group of 4 adults and 2 children under 14 is

(A) $290   (B) $210   (C) $250   (D) $180   (E) $140

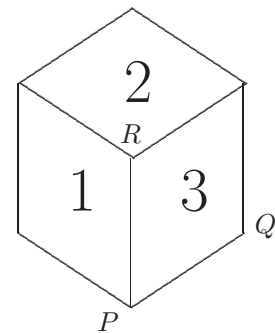**14.** A cube has all its corners cut off as shown.

How many edges does the new shape have?

(A) 24 (B) 28 (C) 32 (D) 36 (E) 48

15. When copying a compact disc on a computer the dialogue box showed that the task was 60% complete.

60%

If it had taken 12 minutes so far, how much longer will it take to complete the copying?

(A) 6 mins (B) 8 mins (C) 12 mins (D) 20 mins (E) 40 mins

16. The cube shown has the numbers 1 to 6 on its sides with opposite sides adding to 7. The cube is placed on a flat table and rotated over the edge PQ and then over the edge PR.
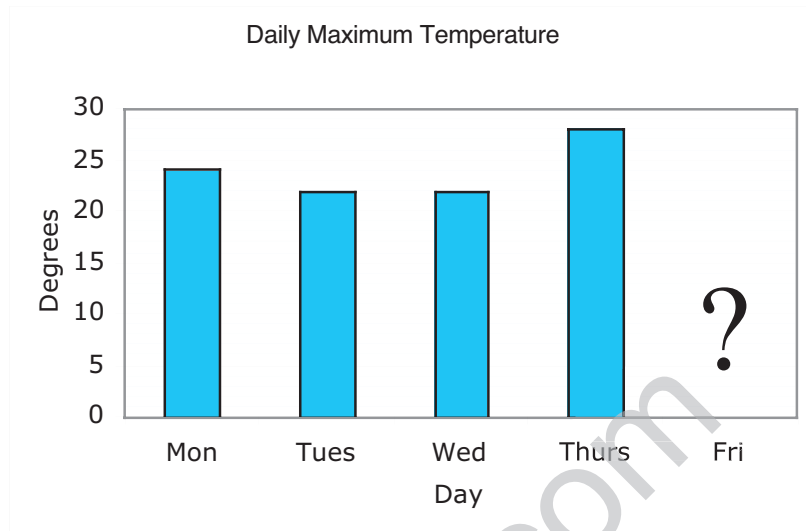What number is now on top?

(A) 1 (B) 3 (C) 4 (D) 5 (E) 6

17. Martian goo doubles its size every 5 minutes. At 9 am a small amount was placed in a container. At 10 am the container was full. At what time was the container half full?

(A) 9:30 am (B) 9:45 am (C) 9:50 am (D) 9:55 am (E) 9:59 am

18. Maximum daily temperatures for one school week were as shown on the graph.

Daily Maximum Temperature

If the average maximum temperature for the 5 days was 25°C, what was the temperature on Friday?

(A) 22°　　　　(B) 24°　　　　(C) 25°　　　　(D) 27°　　　　(E) 29°

19. Lee buys two drinks and one ice-cream for $7. Kim buys one drink and two ice-creams for $8. Mario buys one drink and one ice-cream. How much will this cost Mario?

(A) $2　　　　(B) $3　　　　(C) $4　　　　(D) $5　　　　(E) $6

20. A rectangle is formed by three squares, as shown in the diagram.
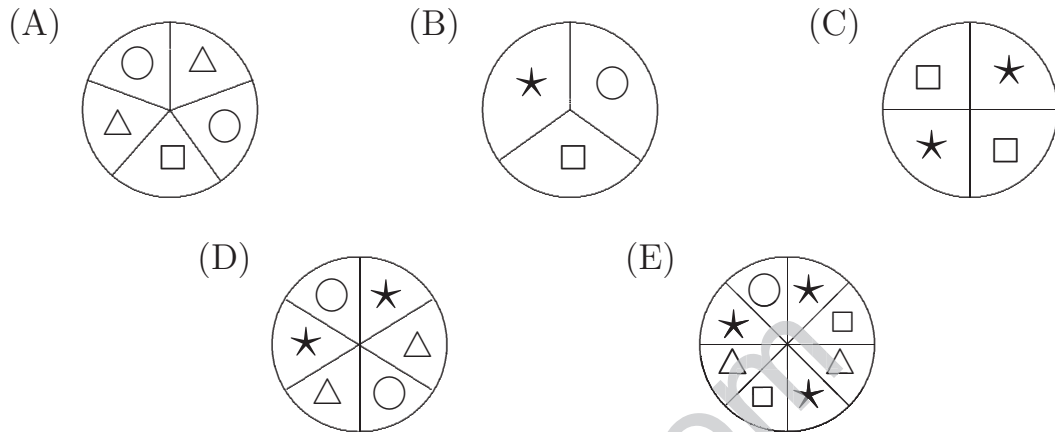

The perimeter of this rectangle is 24 cm. What is its area, in square centimetres?

(A) 27　　　　(B) 30　　　　(C) 36　　　　(D) 24　　　　(E) 48

Questions 21 to 30, 5 marks each

21. With which of the following spinners are you **most likely** to spin a $\star$? (Each spinner is divided into equal parts.)

(A) (B) (C)

(D) (E)

22. Grenville thinks of 7 consecutive numbers. The sum of the smallest three is 33. What is the sum of the largest three?

(A) 36   (B) 39   (C) 42   (D) 45   (E) 48

23. Alex has a piece of string where $\dfrac{1}{8}$ of its length is green, $\dfrac{2}{3}$ of its length is orange and the remaining piece is 5 cm long. How long is the piece of string?

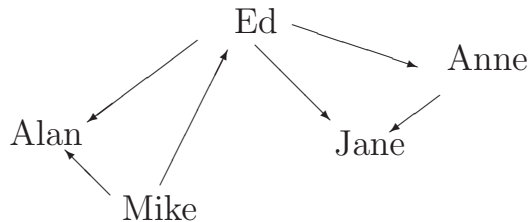(A) 16 cm   (B) 14 cm   (C) 21 cm   (D) 24 cm   (E) 17 cm

24. A set of scales for weighing pumpkins is shown in the diagram. I have a set of 3 weights, 1 kg, 4 kg and 7 kg.
Using these weights, what is the lightest pumpkin which cannot be weighed if all pumpkins weigh a whole number of kilograms?

(A) 2 kg   (B) 3 kg   (C) 5 kg   (D) 8 kg   (E) 9 kg

25. If 'Anne ⟶ Jane' means '*Anne is taller than Jane*', who is the *second* tallest?

Ed

Anne

Alan

Jane

Mike

(A) Ed   (B) Alan   (C) Mike   (D) Anne   (E) Jane

For questions 26 to 30, shade the answer as a whole number from 0 to 999 in the space provided on the answer sheet.

26. A section of a book contains six pages. The sum of all the page numbers in this section is 507. What is the first page number in this section?

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27. A 4×4 grid is made using 40 matches as shown.
How many matches are needed to construct a 10×10 grid?

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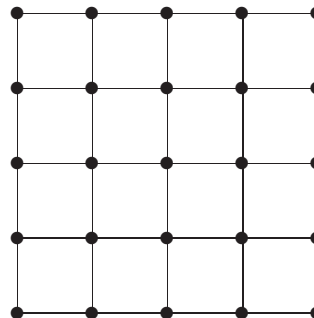
28. If Karen starts counting from 1 and goes up in threes: 1, 4, 7, $\cdots$, and Anne starts counting at the same time from 101 and goes down in twos at the same rate: 101, 99, 97, $\cdots$, they will say the same number together. What is that number?

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29. A large container is one-third full of rice. $20\,\text{kg}$ is added and makes it half full. How many more kilograms of rice are are needed to fill the container?

30. Jacqui gets a 600 piece jigsaw for her birthday. The picture on the box looks approximately square and the pieces are approximately squares of equal size. She decides to start by looking for all the edge pieces. How many of these edge pieces should she expect to find?

* * *