Upper Primary Division

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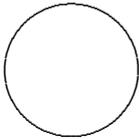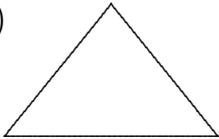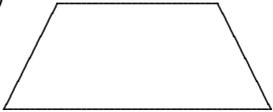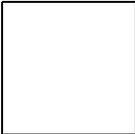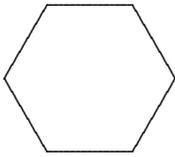
1. Which of these numbers is the largest?

(A) 12 000　　(B) 2 100　　(C) 102 000　　(D) 201　　(E) 1 200

2. Cody has \$42 and Chris has \$26. How much do they have together?

(A) \$68　　(B) \$24　　(C) \$64　　(D) \$28　　(E) \$72

3. Which of these shapes is a square?

(A) 　　(B) 　　(C)

(D) 　　(E)

4. Which of these numbers can be divided by 8 without any remainder?

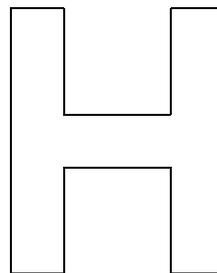(A) 58　　(B) 52　　(C) 54　　(D) 50　　(E) 56

5. What is $71 - 63$?

(A) 12　　(B) 68　　(C) 18　　(D) 8　　(E) 62

6. Thirty-six thousand, six hundred and three is written as

(A) 36 000 603　　(B) 360 603　　(C) 360 063　　(D) 30 663　　(E) 36 603

7. How many lines of symmetry can be drawn for the shape?

(A) 0   (B) 1   (C) 2
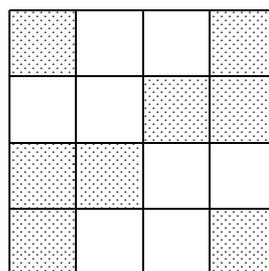   (D) 3   (E) 4

8. Brian arrives at the station at 10:07 but is 15 minutes late for his train. At what time did his train depart?

(A) 09:22   (B) 09:52   (C) 10:22   (D) 10:52   (E) 10:15

9. What percentage of the square is shaded?

(A) 8   (B) 25   (C) 15
     (D) 80   (E) 50

10. If I can walk 1 km in 10 minutes, how far can I walk in an hour and a half?
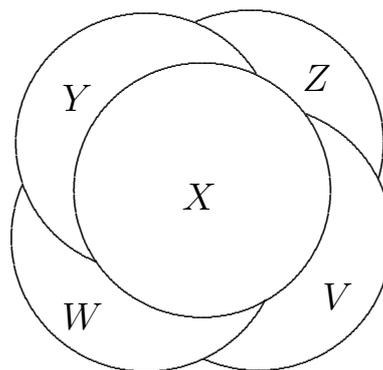
(A) 10 km   (B) 36 km   (C) 6 km   (D) 9 km   (E) 12 km

Questions 11 to 20, 4 marks each

11. Frank's pencil is 15 cm long. How long is it in metres?
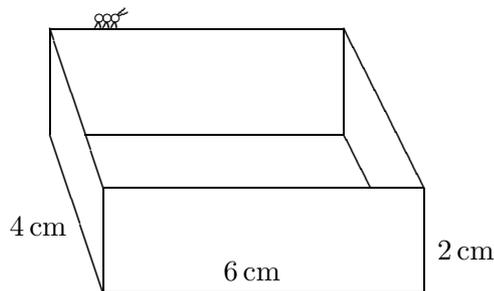
(A) 0.015 m   (B) 0.15 m   (C) 1.5 m   (D) 15 m   (E) 150 m

12. Five coins lie on a table as shown in the diagram. In what order were they placed?
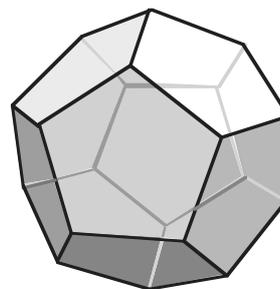

(A) Z, V, W, Y, X (B) Y, X, Z, W, V (C) X, W, V, Z, Y

(D) X, Y, Z, W, V (E) Z, Y, W, V, X

13. An ant walks once around the top edges of this box, How far does it walk?

4 cm   6 cm   2 cm

(A) 20 cm   (B) 14 cm   (C) 16 cm   (D) 24 cm   (E) 10 cm

14. Jenny made a solid using only pentagonal faces as illustrated. If each pentagon has an area of $30 \, \text{cm}^2$, what is the surface area of the solid that Jenny built?

(A) $300 \, \text{cm}^2$ (B) $30 \, \text{cm}^2$ (C) $150 \, \text{cm}^2$
(D) $180 \, \text{cm}^2$ (E) $360 \, \text{cm}^2$

15. Chris thinks of a number, multiplies it by 3 and then adds 4. This gives him a result of 19. What was his original number?

(A) 5 (B) 12 (C) 15 (D) 3 (E) 61

16. This picturegraph shows the number of people at the zoo for these days

How many people attended the zoo on Monday?

(A) 150 (B) $2\frac{1}{2}$ (C) 250 (D) 125 (E) 300

17. A torch uses 3 batteries every 6 hours. How many packs of 4 batteries will you need to run the torch for 30 hours?

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

18. A square is divided up into two smaller squares and two rectangles as shown. If the areas of the two smaller squares are $16\,\text{cm}^2$ and $25\,\text{cm}^2$, what is the area of the shaded rectangle?

(A) $18\,\text{cm}^2$ (B) $20\,\text{cm}^2$ (C) $22\,\text{cm}^2$
(D) $24\,\text{cm}^2$ (E) $28\,\text{cm}^2$

19. There are 10 telegraph poles in a straight road, 100 m apart. The distance from the first to the last is

(A) 900 m   (B) 1000 m   (C) 800 m   (D) 100 m   (E) 1100 m

20. A cube has the numbers 1 to 6 written on its faces in such a way that the numbers on opposite faces always add up to 7. Which of the cubes below could *NOT* be that cube?
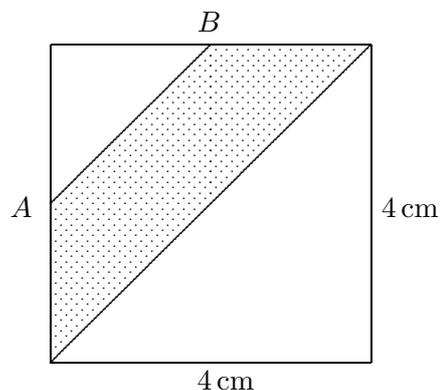
(A)
```
    1
  2   3
```
(B)
```
    2
  3   6
```
(C)
```
    5
  4   6
```

(D)
```
    1
  4   6
```
(E)
```
    5
  1   3
```
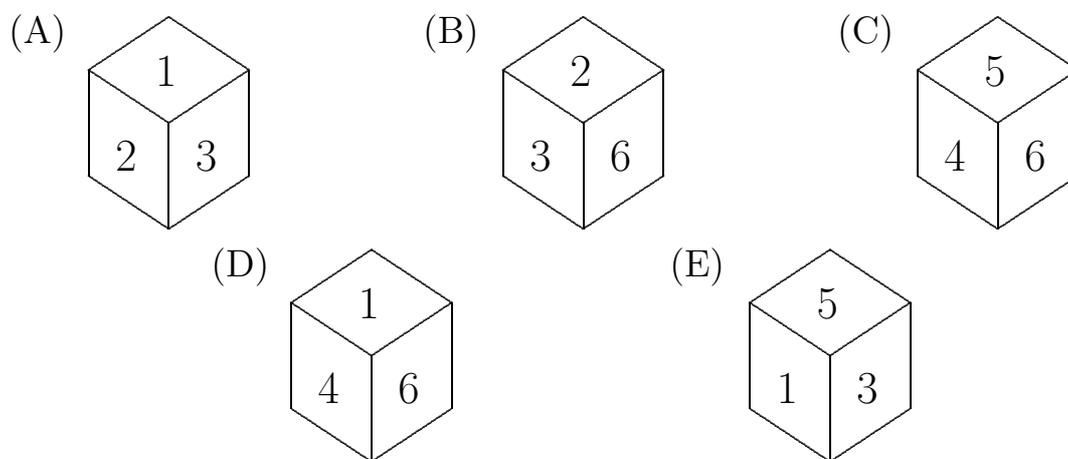
Questions 21 to 30, 5 marks each

21. There are 20 children at a party, $\frac{1}{2}$ of them have brown hair and 20% have black hair. The rest have blond hair. How many have blond hair?

(A) 4   (B) 6   (C) 8   (D) 12   (E) 18

22. If A and B are points halfway along the sides of the square, what is the area shaded?
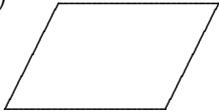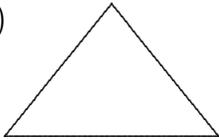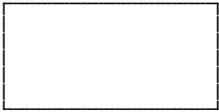
(A) $4\,\text{cm}^2$ (B) $6\,\text{cm}^2$ (C) $8\,\text{cm}^2$
      (D) $10\,\text{cm}^2$ (E) $12\,\text{cm}^2$

23. Arjun wants to cover his wardrobe door with photos of his friends. The pictures are all 10 cm by 15 cm. His wardrobe door is 0.6 m by 1.8 m. How many photos will he need if he wants to leave no spaces?

(A) 72   (B) 12   (C) 120   (D) 24   (E) 60

**24.** In the cube shown in the diagram, the shape $QRTW$ would be
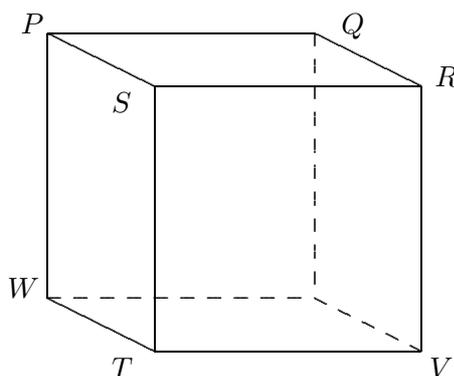

(A)

(B)

(C)

(D)

(E)

25. A chocolate bar is 4 blocks wide and 6 blocks long. Jim breaks a row of the short side and eats it. Mary then breaks a row off the long side and eats it. What fraction of the block remains?

(A) $\dfrac{1}{2}$ (B) $\dfrac{2}{3}$ (C) $\dfrac{5}{8}$ (D) $\dfrac{7}{12}$ (E) $\dfrac{3}{4}$

26. John tells the truth on Monday, Tuesday, Wednesday and Thursday. He lies on all other days. Dieter tells the truth on Monday, Friday, Saturday and Sunday. He lies on all other days. One day they both said, "Yesterday I lied'. The day they said that was

(A) Monday   (B) Wednesday   (C) Thursday
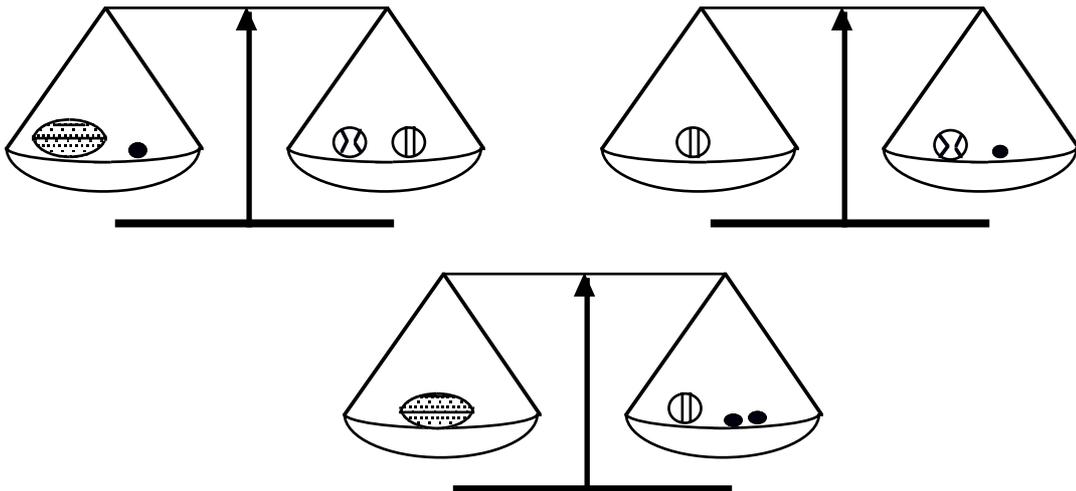
(D) Friday   (E) Saturday

27. A rectangular sheet of paper is folded in half and then folded in half again. A piece is cut out of the folded paper as shown. The sheet is then smoothed out to its original size again.
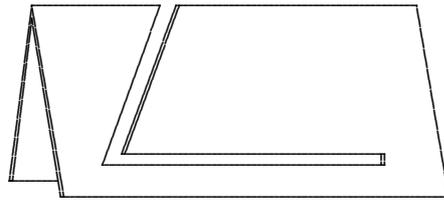
Which one of the following could it be?

(A)
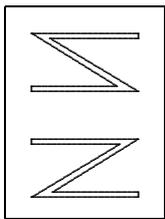
(B)
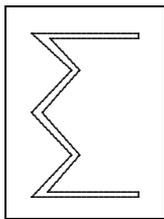
(C)
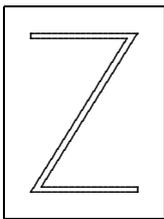
(D)
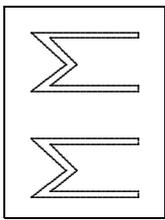
(E)
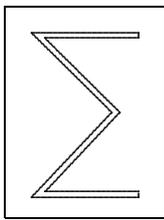
28. In the diagram, • is a squash ball, ⊕ is a cricket ball, ⊗ is a tennis ball, 🏈 is a football and the scales show what balances.
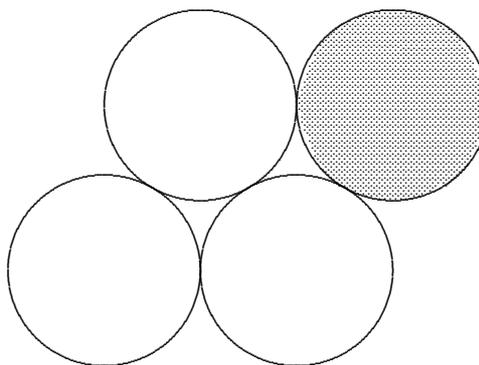
How many squash balls will balance a football?

(A) 3   (B) 4   (C) 5   (D) 6   (E) 7

29. Equilateral triangles of the same size are joined along edges (so that their vertices touch). What is the smallest number of triangles needed to form a hexagon (a six-sided shape)?

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

30. Four 10 c coins lie on a table as shown. Keeping in contact with the other three coins, the shaded coin is rolled around the other three coins until it returns to its starting place. Through what angle does the shaded coin turn, on its axis, in rolling once around the other three coins?

(A) 360°   (B) 540°   (C) 720°   (D) 900°   (E) 1080°

* * *