
Upper Primary Division

Questions 1 to 10, 3 marks each

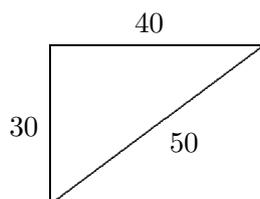
1. Which of these numbers is the largest?

- (A) 132 542 (B) 132 452 (C) 135 242 (D) 32 542 (E) 35 242
-

2. The value of $2694 \div 100$ is

- (A) 2.694 (B) 26.94 (C) 269.40 (D) 26 940 (E) 269 400
-

3. A park is 40 metres long, 30 metres wide and 50 metres across diagonally.



How many metres less is it to walk diagonally across the park rather than around the two sides?

- (A) 10 (B) 20 (C) 30 (D) 40 (E) 50
-

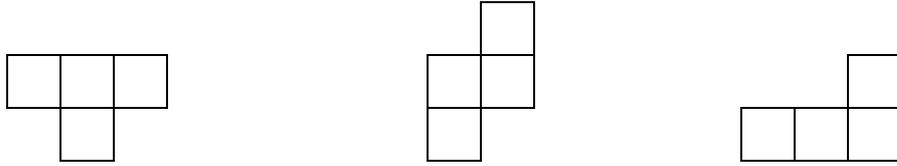
4. In the number sentence, $3 \square 5 + 6 = 21$, which mathematical symbol is represented by the square?

- (A) = (B) + (C) - (D) \times (E) \div
-

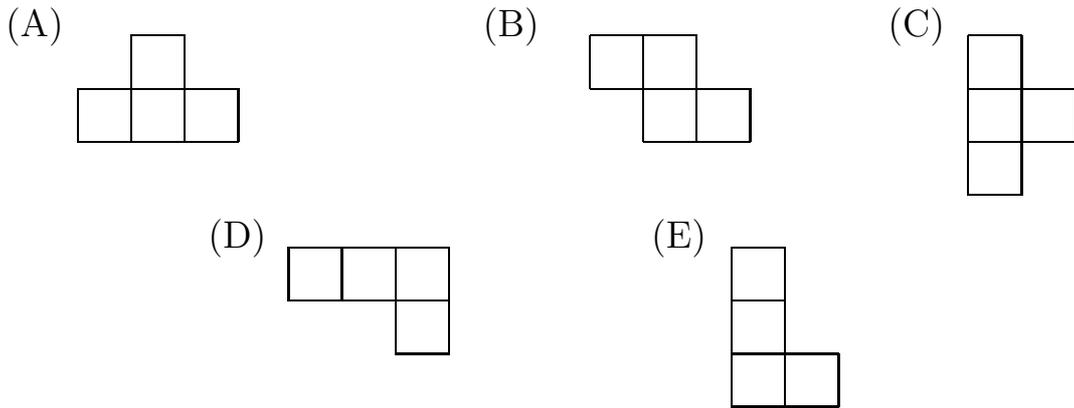
5. How much would you save with a supermarket '*4 c off per litre*' petrol voucher if you buy 30 litres of petrol?

- (A) \$30 (B) \$4 (C) \$4.30 (D) \$1.20 (E) \$12
-

6. Here are three different shapes:-



Which of the shapes below **cannot** be obtained by a rotation, in the plane, of one of the above shapes?



7. Erin scored 3 of her team's 15 goals during a netball match. What percentage of her team's goals did Erin score?

- (A) 30 (B) 25 (C) 15 (D) 20 (E) 45
-

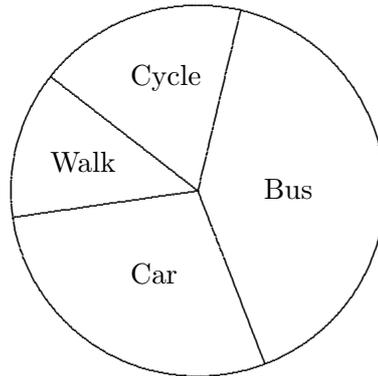
8. In Alice Springs one day the temperature was -2 degrees Celsius at 6 am. At 2 pm the temperature was 10 degrees Celsius. By how many degrees Celsius had the temperature changed?

- (A) 2 (B) 6 (C) 8 (D) 10 (E) 12
-

9. Brett is 12 years old. Daina is half of Brett's age. Omar is 13 years older than Daina. How old is Omar?

- (A) 39 (B) 11 (C) 25 (D) 19 (E) 16
-

10. The pie chart below shows how the children in a class go to school.



Which statement is true?

- (A) More than half the students either walk or cycle.
- (B) More than half the students come to school by car.
- (C) More than a quarter of the students walk to school.
- (D) More than half the students either take the bus or cycle to school.
- (E) More students walk to school than come by car.

Questions 11 to 20, 4 marks each

11. Henry covers his desk using 100 post-it notes. Sally's post-it notes are half the area of Henry's and her desk is twice the area. How many of Sally's post-it notes will she need to cover her desk?

- (A) 25 (B) 50 (C) 100 (D) 200 (E) 400

12. The set of scales below is in balance.



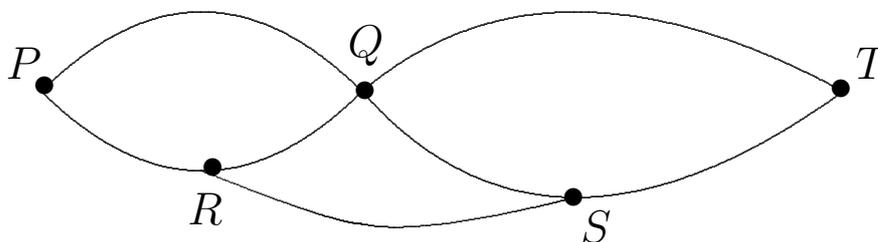
If each \blacktriangle weighs 4 kg, how much does each \blacksquare weigh?

- (A) 24 kg (B) 12 kg (C) 8 kg (D) 4 kg (E) 2 kg
-

13. During the school's last big football match Zac sprinted for 30% of the time, jogged 40%, walked 10% and was off the field for the rest of the time. If the game lasted for 50 minutes, how long did Zac spend off the field?

- (A) 20 minutes (B) 2 minutes (C) 10 minutes
(D) 40 minutes (E) 5 minutes
-

14. Five towns are joined by a system of roads as shown.



How many different ways are there of travelling from town *P* to town *T* if, on any particular journey, no road is used more than once and no town is passed more than once?

- (A) 4 (B) 5 (C) 6 (D) 7 (E) 8
-

15. Two whole numbers multiplied give a total of 60. The difference between the numbers could be

- (A) 3 (B) 5 (C) 6 (D) 8 (E) 11
-

16. The digits 7, 5, and 9 are written on three cards as shown.



Six different 3-digit numbers can be made using these three cards. If these numbers are arranged from the smallest to the largest, in which position is 795?

- (A) second (B) third (C) fourth (D) fifth (E) sixth
-

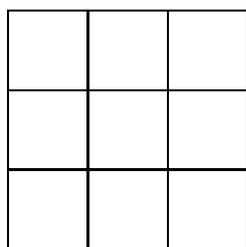
17. Sally and Fred weigh a total of 59 kg when they stand on the scales together. Sally and Anne together weigh only 53 kg. Fred and Anne together weigh 62 kg. How much does Sally weigh?

- (A) 25 kg (B) 28 kg (C) 34 kg (D) 53 kg (E) 59 kg
-

18. Six consecutive numbers are placed on the faces of a cube so that the numbers on the opposite faces always add to 11. What is the largest of these numbers?

- (A) 6 (B) 8 (C) 9 (D) 10 (E) 11
-

19. A 3 by 3 square is made up from nine 1 by 1 squares as shown.



A straight line is drawn through the large square. What is the largest number of small squares which the line can pass through?

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

20. Mel's crayons are red, green and blue and he has at least one green crayon. If all of them are green except two, all of them are blue except 2 and all are red except 2, how many crayons does Mel have?

- (A) 3 (B) 4 (C) 6 (D) 8 (E) 12
-

Questions 21 to 30, 5 marks each

21. There are five blocks of different colours stacked on top of each other. The red block is above the purple block, the blue block is underneath the orange block and the green block is below the blue and above the red.

Which colour is the bottom block?

- (A) red (B) green (C) blue
 (D) orange (E) purple



22. Which of the spinners below would give a one-in-four chance of the arrow landing in the shaded region?

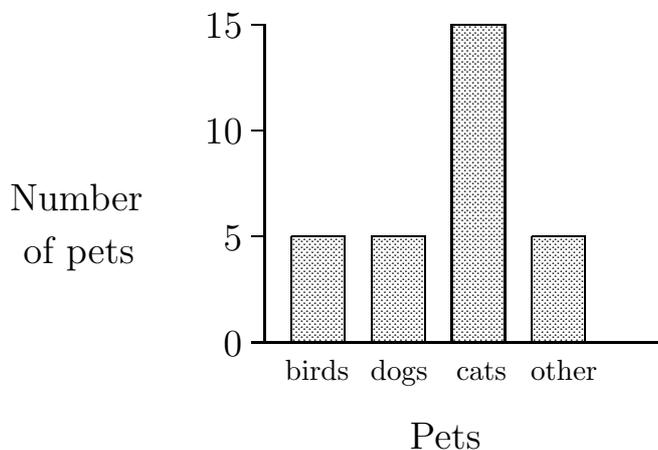
(A) (B) (C)

(D) (E)

23. Gina has three children and one of them is a teenager. When she multiplies her children's ages together the result is 770. How old is the teenager?

- (A) 13 (B) 14 (C) 15 (D) 16 (E) 17

24. The 30 students in a class are asked about the pets they have and the results are summarised in the graph below.



One student has two pets, one student has three pets and no other students have more than one pet. How many students have no pet at all?

- (A) 1 (B) 2 (C) 3 (D) 4
(E) None, all the students have at least one pet

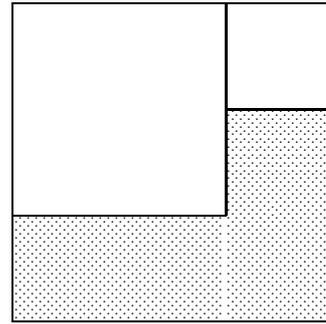
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25. Jim notices the odometer of his car reads 062319 km where all the digits are different. The number of kilometres he will travel before the digits are all different again is

- (A) less than 10 (B) between 10 and 20 (C) between 20 and 25
(D) between 26 and 30 (E) greater than 30

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. In the year 5 classroom, the desks are arranged in equal rows. Phil sits at the desk that is fourth from the front and third from the back. There are four desks on the right of Phil's desk but only one to the left. How many desks are there in the room?
-

27. A large square contains two small squares with areas 25 square centimetres and 4 square centimetres. What is the perimeter, in centimetres, of the shaded area?



28. When a maths class is split into groups of four, there are two students left. When split into groups of 5, there is one left. There are 15 girls in the class and a smaller number of boys. How many boys are there in the class?

29. An apartment block has a number of square apartments and a number of square gardens. Apartments must have at least one window, either to the outside or to a garden. In figure 1, one apartment has a window to an internal garden G, and ten have windows to the outside.

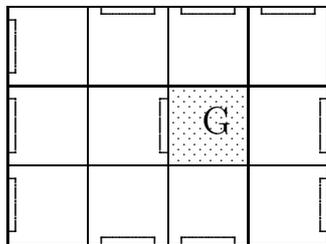


figure 1

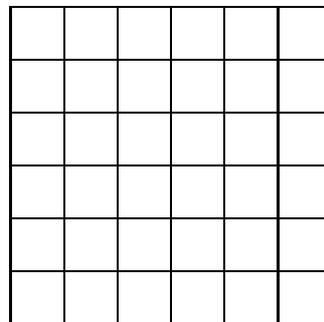


figure 2

What is the smallest number of gardens needed for an apartment block built on a 6×6 square, as in figure 2, so that each apartment has a window to the outside or to an internal garden?

30. By placing a 1 at the beginning and the end of a two-digit number, its value is increased by 1190. What is this two-digit number?