

Name:.....
Class:.....

Upper Primary Division

Questions 1 to 10, 3 marks each

1. Which of these numbers is the smallest?

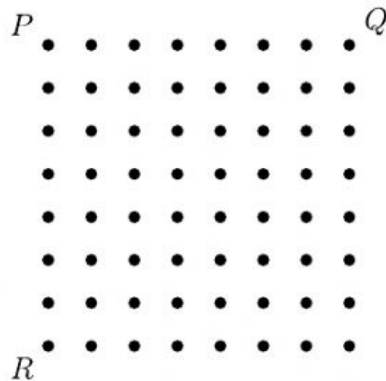
(A) 655 (B) 566 (C) 565 (D) 555 (E) 556

2. Two pizzas are sliced into quarters. How many slices will there be?

(A) 2 (B) 10 (C) 6
(D) 8 (E) 16



3. Join the dots P , Q , R to form the triangle PQR .



How many dots lie *inside* the triangle PQR ?

(A) 13 (B) 14 (C) 15 (D) 17 (E) 18

4. $0.3 + 0.4$ is

(A) 0.07 (B) 0.7 (C) 0.12 (D) 0.1 (E) 7

5. Lee's favourite chocolates are 80c each. He has five dollars to spend. How many of these chocolates can he buy?



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

6. Ten chairs are equally spaced around a round table. They are numbered 1 to 10 in order. Which chair is opposite chair 9?

(A) 1 (B) 2 (C) 3 (D) 4 (E) 5

7. In a piece of music, a note like ♩ is worth one beat, ♪ is worth half a beat, ♩ is worth 2 beats and ♩ is worth 4 beats. How many beats are in the following piece of music?

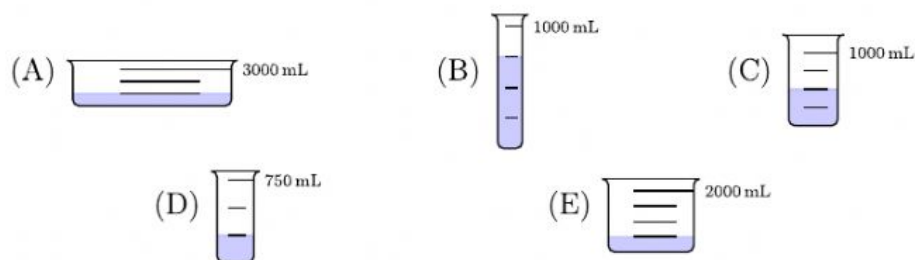


(A) 4 (B) 5 (C) 6 (D) 7 (E) 8

8. Phoebe put her hand in her pocket and pulled out 60 cents. How many different ways could this amount be made using 10c, 20c and 50c coins?

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

9. Which of these containers is currently holding the most water?



10. Which of these shapes has the most axes of symmetry (mirror lines)?

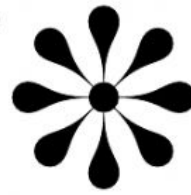
(A)



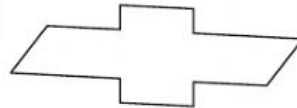
(B)



(C)



(D)



(E)



Questions 11 to 20, 4 marks each

11. A sailor coiled a rope on his ship's deck, and some paint was spilled across half of it. What did the rope look like when it was uncoiled?



(A)



(B)



(C)



(D)



(E)



12. If the area of the tangram shown is 64 square centimetres, what is the area in square centimetres of the small square?

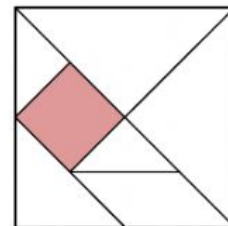
(A) 32

(B) 24

(C) 16

(D) 8

(E) 4



13. For each batch of 25 biscuits, Jack uses $2\frac{1}{2}$ packets of chocolate chips. How many packets does he need if he wants to bake 200 biscuits?

(A) 20

(B) 8

(C) 80

(D) 10

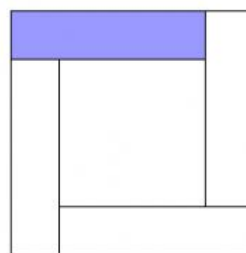
(E) 50

14. Which one of the following is correct?

- (A) Two even numbers add to an odd number.
- (B) An odd number minus an odd number is always odd.
- (C) Adding 2 odd numbers and an even number is always odd.
- (D) Adding 3 odd numbers is always odd.
- (E) An odd number multiplied by an odd number always equals an even number.

15. The perimeter of the outer square is 36 cm, and the perimeter of the inner square is 20 cm. If the four rectangles are all identical, what is the perimeter of the shaded rectangle in centimetres?

- (A) 12
- (B) 14
- (C) 24
- (D) 20
- (E) 18



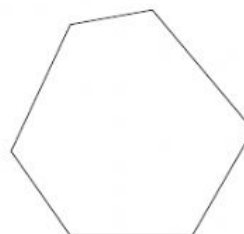
16. George has a new lock that opens if the four numbers 1, 2, 3 and 4 are pressed once each in the correct order. If the first number must be larger than the second number, how many combinations are possible?

- (A) 10
- (B) 12
- (C) 15
- (D) 18
- (E) 20



17. A straight cut is made through the hexagon shown to create two new shapes. Which of the following could **not** be made?

- (A) one triangle and one hexagon
- (B) two pentagons
- (C) two quadrilaterals
- (D) one quadrilateral and one pentagon
- (E) one triangle and one quadrilateral



18. The numbers 3, 9, 15, 18, 24 and 29 are divided into two groups of 3 numbers and each group is added. The difference between the two sums (totals) of 3 numbers is as small as possible. What is the smallest difference?

(A) 0 (B) 1 (C) 2 (D) 5 (E) 8

19. Benny built a magic square using the numbers from 1 to 16, where the numbers in each row, each column and each diagonal add up to the same total.

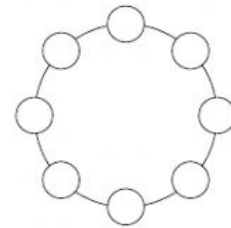
What number does he place at the X?

X			13
5		10	
	7		12
4			1

(A) 16 (B) 15 (C) 17 (D) 11 (E) 14

20. Andy has a number of red, green and blue counters. He places eight counters equally spaced around a circle according to the following rules:

- No two red counters will be next to each other.
- No two green counters will be diagonally opposite each other.
- As few blue counters as possible will be used.



How many blue counters will Andy need to use?

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

Questions 21 to 25, 5 marks each

21. I have five coloured discs in a pile as shown.
I take the top two discs and put them on the bottom (with the red disc still on top of the blue disc).
Then I again take the top two discs and put them on the bottom.
If I do this until I have made a total of 21 moves, which disc will be on the bottom?



(A) red (B) blue (C) green (D) yellow (E) orange

22. A zoo keeper weighed some of the animals at Melbourne Zoo. He found that the lion weighs 90 kg more than the leopard, and the tiger weighs 50 kg less than the lion. Altogether the three animals weigh 310 kg. How much does the lion weigh?



(A) 180 kg (B) 150 kg (C) 140 kg (D) 130 kg (E) 100 kg

23. Adrienne, Betty and Cathy were the only three competitors participating in a series of athletic events. In each event, the winner gets 3 points, second gets 2 points and third gets 1 point. After the events, Adrienne has 8 points, Betty has 11 points and Cathy has 5 points. In how many events did Adrienne come second?

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

24. Jane and Tom are comparing their pocket money. Jane has as many 5c coins as Tom has 10c coins and as many 10c coins as Tom has 20c coins. However, Jane has as many 50c coins as Tom has 5c coins. They have no other coins and they find that they each have the same amount of money.

What is the smallest number of coins they each can have?

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

25. A tuckshop has two jars of cordial mixture.

Jar A is 30% cordial, while Jar B is 60% cordial.

Some of Jar A is mixed with some of Jar B to make 18 litres of 50% cordial.

How many litres from Jar A are used?



- (A) 9 (B) 12 (C) 4
(D) 3 (E) 6