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## Middle Primary Division

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### Questions 1 to 10, 3 marks each









1. Which of the following numbers is the largest?

- (A) 231      (B) 201      (C) 321      (D) 123      (E) 302
- 

2. Which number is made up with 1 hundred, 4 tens and 3 ones?

- (A) 413      (B) 143      (C) 341      (D) 1043      (E) 134
- 

3. The grid below gives the position of different shapes. For example, the  $\diamond$  is at B4.

	1	2	3	4
A				
B				
C				
D				

On which square is the  $\star$  ?

- (A) A3      (B) C3      (C) D4      (D) B4      (E) C2
- 

4. Olivia is 2 years old. Her brother, Matthew, is 5 years older than her. How old is Matthew?

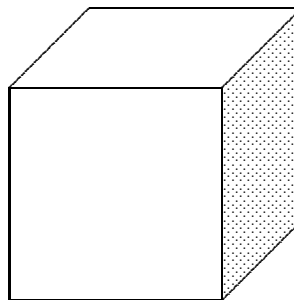
- (A) 2      (B) 3      (C) 5      (D) 7      (E) 10
-

5. If I buy a shirt for \$25 and a T-shirt for \$12, how much change do I get from \$50?

- (A) \$13            (B) \$23            (C) \$25            (D) \$33            (E) \$37
- 

6. How many edges does a cube have?

- (A) 4                (B) 6                (C) 8  
(D) 10              (E) 12



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7. If Andrew is in the middle of the tuckshop queue, which number could be the total number of students in the queue?

- (A) 4                (B) 6                (C) 8                (D) 9                (E) 12
- 

8. When a room was being painted, five curious cats walked in. Four cats got paint on their front paws and one cat got paint on its back paws. How many paws did NOT have paint on them?

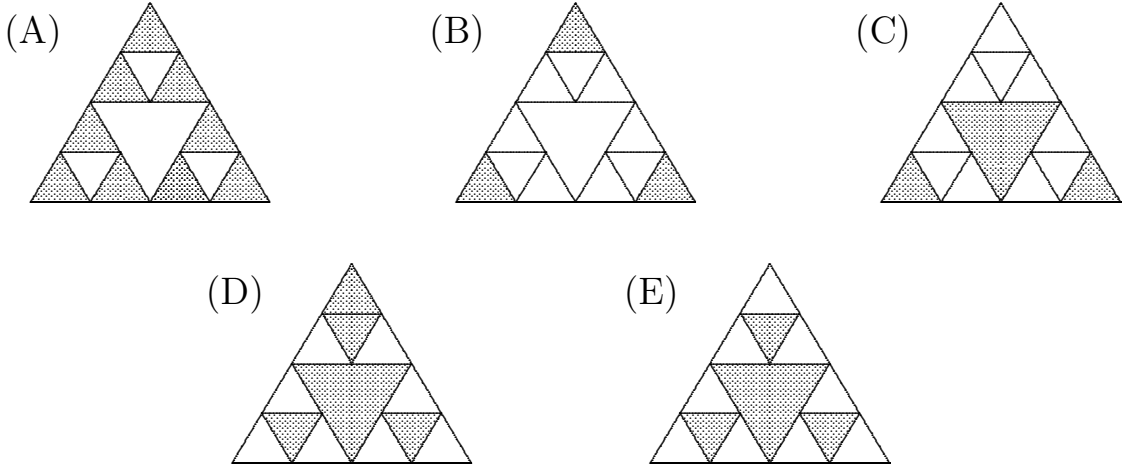
- (A) 5                (B) 6                (C) 8                (D) 10                (E) 12
- 

9. Jason has to finish his homework before he can watch '*Blastoids*' on TV at 4:35 pm. It takes him 17 minutes to do his homework. What is the latest time he can start his homework and still finish in time to watch '*Blastoids*'?

- (A) 4:52 pm                              (B) 4:20 pm                              (C) 4:18 pm  
(D) 4:28 pm                              (E) 4:08 pm
-



13. Which of the following shows one half of the figure shaded?




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14. Abdul's class has a set of 30 lockers arranged in 3 rows of 10 and numbered from 1 to 30 starting from the top left hand corner and counting across each row from left to right until reaching the bottom right hand corner.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

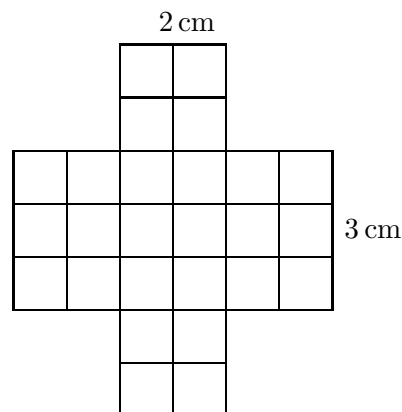
- Abdul has locker No 7.
- Betty's locker is below Abdul's and two to the left.
- Cheung has a locker with a number 6 more than Betty's locker.
- Dilip has a locker two rows above Cheung's.
- Evita's locker is five to the right and one below Dilip's.

Which two students have lockers next to each other?

- (A) Abdul and Betty    (B) Cheung and Evita    (C) Evita and Betty  
 (D) Dilip and Abdul    (E) Abdul and Cheung
-

15. The diagram shows a net for an open top box. It is to be filled with 1 cm cubes. How many cubes will the box hold?

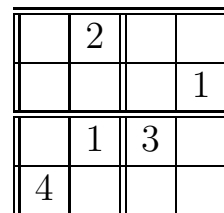
(A) 6                      (B) 13                      (C) 9  
(D) 7                      (E) 12



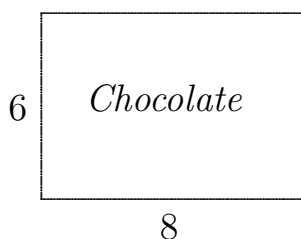
16. The game of *Four Tofu* is played on a  $4 \times 4$  grid. When completed, each of the numbers 1, 2, 3 and 4 occurs in each row and column of the  $4 \times 4$  grid and also in each  $2 \times 2$  corner of the grid.

When the grid shown is completed, the sum of the four numbers in the corners of the  $4 \times 4$  grid is

(A) 13                      (B) 11                      (C) 15                      (D) 12                      (E) 10



17. Jane is given a large block of chocolate which is made up of square pieces and is 6 pieces wide and 8 pieces long.



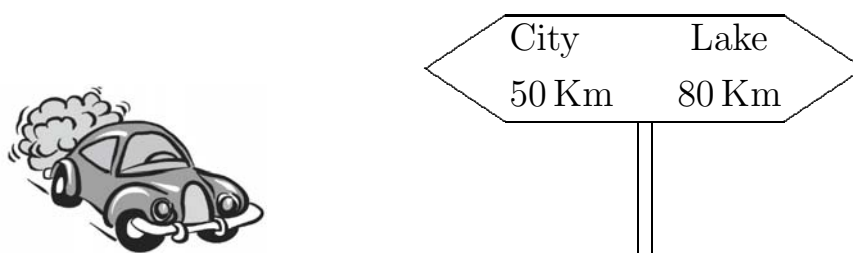
She eats all the outside pieces. What fraction of the block is left?

(A)  $\frac{1}{4}$                       (B)  $\frac{1}{3}$                       (C)  $\frac{1}{2}$                       (D)  $\frac{2}{3}$                       (E)  $\frac{3}{4}$

18. Bruce gives a number problem to Helen. He told her to choose a number, add 5 to it, double that sum and then subtract 10. Helen's answer was 30. Which number did she choose?

(A) 15                      (B) 25                      (C) 45                      (D) 40                      (E) 30

19. While driving from the city to the lake, Karen passes the road sign shown in the diagram.



About an hour later she notices a sign indicating she has just 5 km to go to the lake. How far has she travelled from the city?

- (A) 50 km      (B) 80 km      (C) 125 km      (D) 30 km      (E) 65 km
- 

20. Jacqui had \$5.10 in 5, 10, 20 and 50 cent coins. She had an equal number of each type of coin. How many coins did she have?

- (A) 24      (B) 20      (C) 16      (D) 22      (E) 18
- 

**Questions 21 to 25, 5 marks each**

21. Alice and Kate collect some seashells. Together they have 30 seashells. Which could **NOT** be true?

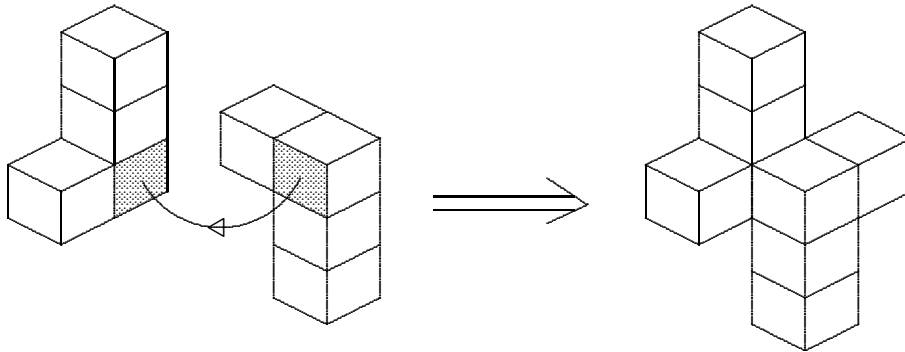
- (A) Alice has 12 seashells.  
(B) Kate has twice as many seashells as Alice.  
(C) Kate has one more seashell than Alice.  
(D) Alice has two more seashells than Kate.  
(E) Alice and Kate have the same number of seashells.
- 

22. How many three-digit numbers greater than 900 are there that satisfy the following conditions?

- The sum of the digits is 14.
- The digits are all different.
- The tens digit is an odd number.

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

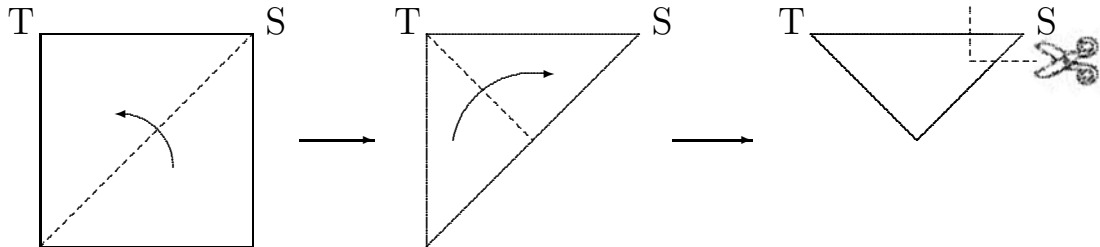
- 23.** Two L shaped solids are each made up from 4 cubes as shown in the left of the diagram. The two shaded faces are glued together to form the solid shown on the right in the diagram.



How many faces of the original 8 cubes are visible if we can look at the solid from any angle?

- (A) 28                      (B) 30                      (C) 32                      (D) 34                      (E) 36

- 24.** A square piece of paper is folded along its centre line and then folded again as shown.

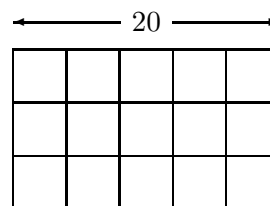


A cut is made along the dotted line in the third diagram. Which of the following could be the shape of the paper when it is unfolded?

- (A) (B) (C) (D) (E)



- 25.** A rectangular wire grid is made up of 15 equal squares as shown. If the length of the grid is 20 cm, what is the total length, in centimetres, of the wire in the grid?



- (A) 144      (B) 150      (C) 152      (D) 164      (E) 170
- 

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

**Question 26 is 6 marks, question 27 is 7 marks, question 28 is 8 marks, question 29 is 9 marks and question 30 is 10 marks.**

- 26.** When I opened my new maths book the sum of the two page numbers facing me was 317. What was the number of the next page?
- 

- 27.** Each of Andrew, Bill, Clair, Daniel and Eva either always lies or is always truthful, and they know who each of them is.

Andrew says that Bill is a liar.

Bill says that Clair is a liar.

Clair says that Daniel is a liar.

Daniel says that Eva is a liar.

What is the largest possible number of liars in the group?

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- 28.** I am thinking of a number. It has three digits and is between 110 and 140. The sum of the digits is 9 and the number is even. What is this number?
- 

- 29.** In my marble bag there are between 40 and 80 marbles.

If I share them equally among 4 children there is 1 left.

If I share them equally among 5 children there are 3 left.

If I share them equally among 6 children there is 1 left.

How many marbles do I have?

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- 30.** Ace, Bea, Cec, Dee, Eve, Fie and Geo are 1, 2, 3, 4, 5, 6 and 7 years old, in some order. Dee is three times as old as Bea. Cec is four years older than Eve. Fie is older than Ace and Ace is older than Geo, but the combined ages of Ace and Geo is greater than the age of Fie. What is Ace's age?
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