CRPF PUBLIC SCHOOL, ROHINI

SECOND Intra School Mathematics Olympiad 2011
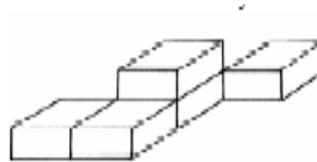
CLASS VI

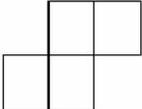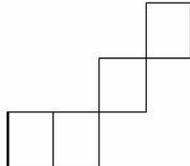**Max. Marks: 50**   **Max. Time: 1 hour 30 minutes**
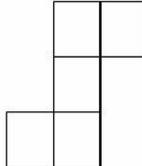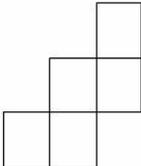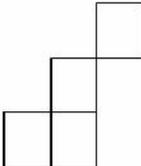
General Instructions:

1. **Q1-15 (Section A) each MCQ carries 2 mark. Each question has five choices (A, B, C, D or E). Select the correct answer to each question and darken the corresponding circle in the Answer Sheet provided to you. THERE IS NO NEGATIVE MARKING. Marking of more than one circle for an answer shall be awarded zero mark.**
2. **Q16-20 (Section B) each question carries 4 mark. You are to give the complete solution. Marking will be done stepwise.**

SECTION - A

Q1. What will you see if you look at the block building directly from above?

A)   B)   C)   D)   E)

Q2. Ashley is doing a calculation on his calculator. He makes a mistake by multiplying 10 instead of dividing by 10. The calculator answer is 600. What is the correct answer to Ashley's calculation ?

    A)60   B) 60000   C) 600   D) 6000   E) 6

Q3. How many odd counting numbers are between twenty eight and seventy two?

    A)20   B) 21   C) 22   D)23   E) 24
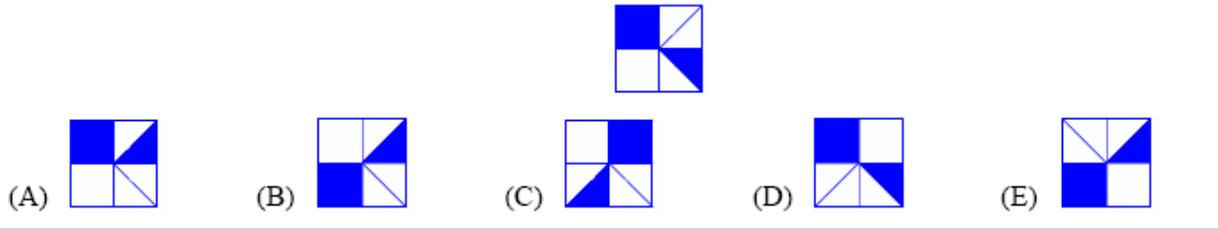
Q4. Nell has three fewer rupees than Gina. The sum of their money is Forty-five rupees. How many rupees does Gina have ?

A)24   B) 20   C) 30   D) 28   E) 32
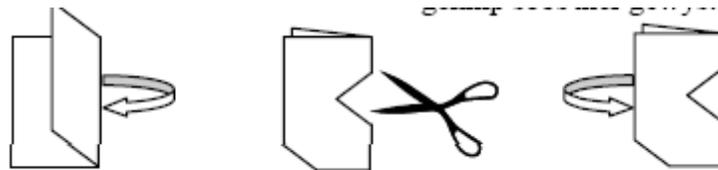
Q5. Vishu writes Math is Cool problems at a constant rate. If he writes 4 problems in 10 minutes , how many problems would he write in 95 minutes ?

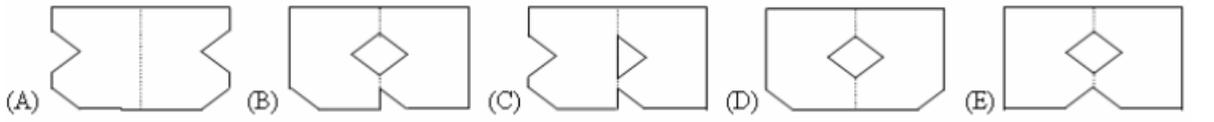   A)35   B) 38   C) 40   D) 42   E) 32

Q6. Which Square is same as the one below ?

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

Q7. Yusuf folded a piece of paper in half, and then made cuts in the paper as shown here

What will it look like if he now unfolds the paper?

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

Q8. In 10 years time the combined age of 3 sisters will be 100. What is their combined age now ?

       A)70   B) 80   C) 90   D) 76   E)50

Q9. Ist row   .

   IInd row   . . .

   IIIrd row   . . . . .

   IVth row   . . . .

   How many dots would be in the 7th row ?

       A)7   B) 13   C) 11   D) 10   E) 15

Q10. Which one of the following numbers will appear in this pattern ?

  7   , 13 , 19 , 25 , _

  A)27, 34   B) 35, 26   C) 53, 45   D) 41, 83   E) 31, 37

Q11. The numbers from 1 to 9 must be written in the grid below according to the following rules :
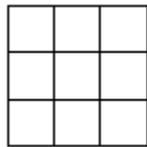
  1 , 8 and 6 are in the top row

  3 , 5 are not in the right column

  9 , 4 and 2 are in the bottom row

  3 and 7 are not in the left column

  Which number will be in the centre of the grid?

  A)5   B) 3   C) 7   D)2   E)cannot determine

Q12. In lowest terms , what will be the product of this multiplication ?

$$\frac{3}{5}\times\frac{5}{7}\times\frac{7}{9}\times\frac{9}{11}\times\frac{11}{13}\times\frac{13}{15}$$

  A)3/11   B)5/17   C) 1/5   D) 1/11   E) 9/13

Q13. What time is it 49 minutes ago 6:28 pm ?

  A)5:50 pm   B) 5:15 pm   C) 5:20 pm   D) 5:39 pm   E) 5:37 pm

Q14 What is the smallest whole number that could be subtracted from 2010 to produce a result less than 973 ?

  A)1037   B) 1025   C) 1005   D) 1043   E) 1053

Q15. The base angle of an isosceles triangle measures 15 ° . What is the degree measure of the vertex angle of this triangle ?

  A)100 °   B) 180 °   C) 90 °   D) 120 °   E)150 °

SECTION - B

Q16. On average , Rita eats two Pizzas every week. At this rate , how many Pizzas would she eat in January , February and March of a leap year ?

Q17. The sum of three consecutive numbers is 60 . What is the product of these three numbers ?

Q18. Salman Khan forgot to take off his shoes when he got onto the scale to weigh himself . The scale showed 41 kg . He then weighed his two shoes and found that they had a mass of 725 g . What was his mass without his shoes ?

Q19. Lalu's bucket weighs 21 kg when full of water . After he pours out half the water from the bucket ,   it weighs 12 kg . What is the weight of empty bucket ?

Q20. A , B , C , D , E and F are six towns situated as follows :

   a.   A is 10 km west of E

   b.   B is 20 km west of C

   c.   D is 30 km east of F

   d.   F is 10 km south of A

   e.   D is 20 km north of C

   How far is B from E ?

 NOTE: The Solution Key of this paper will be available on School's blog www.crpfpsrohini.blogspot.com today after 6 pm. The Result will be declared on 22 December (Date of Birth of Great Indian Mathematician Ramanujan) and will be available on School's blog.