

CRPF PUBLIC SCHOOL, ROHINI

Second Intra School Mathematics Olympiad 2011

CLASS IV

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.
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Section A

Q1 Roman numeral xiv is written in Hindu Arabic as

- a) 24 b) 14 c) 16 d) 20 e) 6

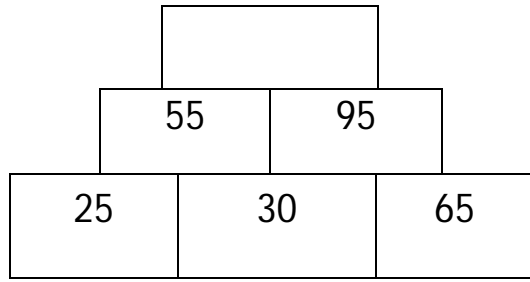
Q2 29,834 37,943

- a) > b) < c) = d) all of these e) None of these

Q3 9316 rounded to nearest 100 will be

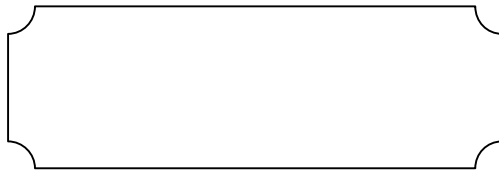
- a) 9000 b) 9400 c) 9010 d) 9300 e) 9320

Q4- Look at the pattern and find out which number will come at the top most brick of tower



- a) 150 b)250 c)160 d)20 e) 40

Q5- How many lines of symmetry does this shape has :

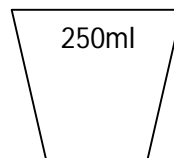
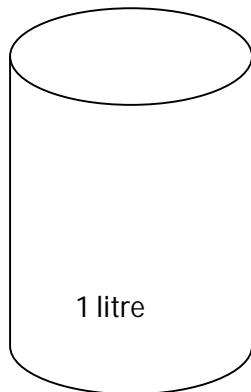


- a)1 b)4 c)2 d) 8 e) unlimited

Q6- A movie started at 1:00pm and got over at 4:15pm. What was the duration of movie?

- a)4hr 15min b)3hr c)3hr 15min d)4hr 30min e) 3hr 45min

Q7- 1l bottle can be filled up by _____ glasses of water of 250ml :



- a) 3 b)4 c)5 d)6 e)8

Q8- Anil has organized a party for his friends. He has to order pizza for party. If one pizza is sufficient for 10 people then how many pizzas are required to serve 50 people?

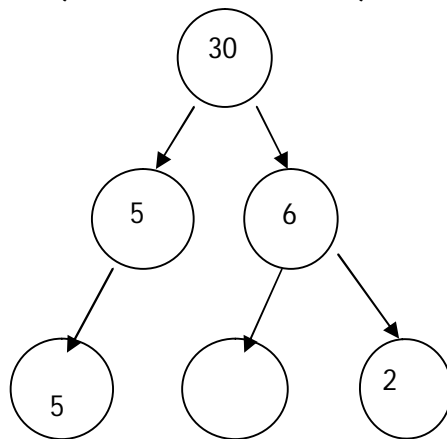
- a)25 b)50 c)10 d)5 e)500

Q9- Price of 1kg beans is Rs15. What will be price of $\frac{1}{2}$ kg beans?

- a)Rs7 b)Rs 5 c)Rs7.50 d)Rs10 e)Rs1.50

Q10 Factor tree help us find different ways of making a number by multiplying . What number will come in the blank circle :

- a)3 b)2 c)9 d)4 e)8



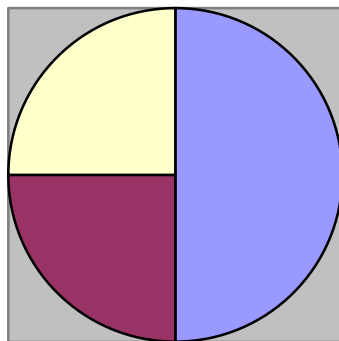
Q11 What is the diameter of a circle having radius 12cm?

- a)25cm b)50cm c)24cm d)10cm e)12cm

Q12- $3060 \div 10 = 51 \square 6$

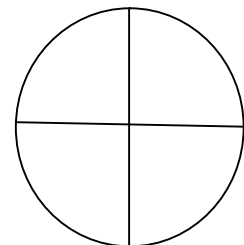
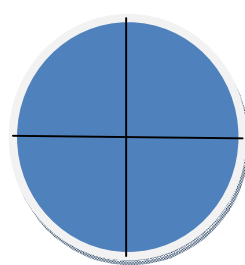
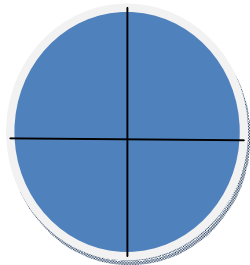
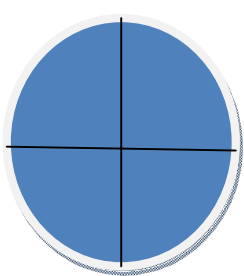
- a) + b) - c) x d) \div e) none of these

Q13- The circle represent the population of animals in Gir Sanctuary. If there are 360 deer in the sanctuary then what is the number of lion in sanctuary?



- a)180 b)100 c)150 d)125 e)175

Q14-The following picture represents which fraction?



- a) $3 \frac{1}{4}$ b) $2 \frac{1}{2}$ c) $3 \frac{1}{2}$ d) $4 \frac{1}{4}$ e) $1 \frac{3}{4}$

Q15- What time will a 24 hour clock show at 10:30pm ?

- a)22:30 b)10:30 c)13:00 d)12:30 e)20:30

Section B

Q16 11 children paid Rs 770 for a ride at the fair. How much did the 2 tickets cost ?

Q17 Ridhi bought 6 clips, each costing Rs 25 and 3 pairs of earrings , each costing Rs 12. How much money she spent in all ?

Q18 The estimated product of 31×69 is

(by rounding the number to nearest 10)

Q19 Ankita needs $\frac{1}{5}$ Kg apple , $\frac{1}{5}$ Kg grapes and 2 Kg strawberries for making fruit cream. How many Kg of fruits in all does she require to make fruit cream ?

Q20 Choose the question that can be answered using the fact :

(Solve it also)

Fact : A Rose garden has 128 pink rose bushes, 140 red rose bushes and 212 yellow rose bushes.

Question :

- A) How many mango trees are there in the garden ?**
- B) How many rose bushes are there in all ?**
- C) How many more rose bushes can be planted in the garden ?**

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.

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CLASS IV

SOLUTION KEY

SECTION A

1.B 2.B 3.D 4.A 5.C 6.C 7.B 8.D 9.C 10.A 11.C 12.C 13.A 14.A 15.A

SECTION B

Ans 16

11 children paid Rs. 770

$$1 \text{ child paid Rs. } \frac{770}{11} = 70$$

So cost of 2 tickets = $2 \times 70 = 140$

Ans 17

cost of 1 clip = Rs. 25

cost of 6 clips = $\text{Rs. } 25 \times 6 = \text{Rs. } 150$

cost of 1 pair of earrings = 12

cost of 3 pair of earrings = $12 \times 3 = \text{Rs. } 36$

therefore in all she spent = $\text{Rs. } 150 + 36 = \text{Rs. } 186$

Ans 18

Rounding number to nearest ten

$$31 \implies 30$$

$$69 \implies 70$$

Estimated product of $31 \times 69 = 30 \times 70$

$$= 2100$$

Ans 19

$$\begin{aligned}\text{Total Kg of fruits} &= \frac{1}{5} \text{ Kg} + \frac{1}{5} \text{ Kg} + 2 \text{ Kg} \\ &= \frac{2}{5} \text{ Kg} + 2 \text{ kg} \\ &= 2\frac{2}{5} \text{ Kg}\end{aligned}$$

Ans 20

Correct Question is (B)

Solution of (B)

$$\begin{aligned}\text{Total Rose bushes} &= \text{Pink rose bushes} + \text{Red rose bushes} + \text{Yellow rose bushes} \\ &= 128 + 140 + 212 \\ &= 480\end{aligned}$$