

# CRPF PUBLIC SCHOOL, ROHINI

## THIRD InTRa School MaThEMaTicS oI yMplAD 2012

### 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

**Q.1** Express 36 as sum of two prime numbers.

- (A) 30+4      (B) 33+3      (C) 35+1      (D) 31+5      (E) 20+16

**Q.2** Using only the segments, how many triangles of all sizes can be traced in given figure?

- (A) 16      (B) 17      (C) 18      (D) 19      (E) 20

**Q.3** Rahul put his timepiece on the table in such a way that at 6:00 P.M., the hour hand points to North. In which direction will the minute hand points at 9:15?

- (A) South-East      (B) South      (C) North      (D) West      (E) East

**Q.4.** Palak has four cards (see below). How many different two-digit numbers can she make with these cards?



- (A) 8      (B) 12      (C) 16      (D) 18      (E) 24

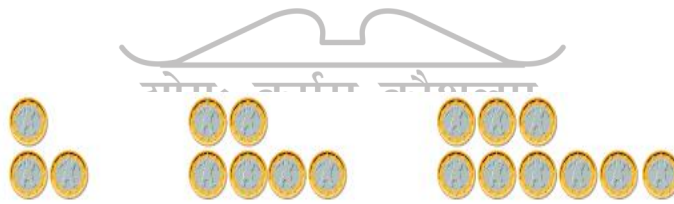
**Q.5** Arpita's bucket weighs 21 kg when full of water after she pours out half the water from the bucket, it weighs 12 kg. What is the weight of the empty bucket?

- (A) 2 kg                      (B) 3 kg                      (C) 9 kg                      (D) 18 kg                      (E) 4 kg

**Q.6** How many numbers between 800 and 1000 are divisible by 7 and 8?

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

**Q.7** A sketch shows the first three patterns in the sequence that Saumya is building with coins. How many coins will he need for the fiftieth pattern in the sequence?



- (A) 140                      (B) 145                      (C) 147                      (D) 150                      (E) 160

**Q.8** Identify the figure that complete the patters.



- (A) 1                      (B) 2                      (C) 3                      (D) 4                      (E) None of these

**Q.9** Choose the alternative which is closely resembles the water- image of the given combination.

A1M3b

- (A) ƆM1A                      (B) ƆM1A                      (C) ƆM1A                      (D) ƆM1A                      (E) None of these

**Q.10** By which number of the given numbers given below, 303450 is not divisible?

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

**Q.11** A 6 foot tall man noticed that his shadow is 9 feet long, and the shadow of a nearby tree is 54 feet long. How tall is the tree?

- (A) 36 feet              (B) 48 feet              (C) 60 feet              (D) 90 feet              (E) none of these

**Q.12** The sum  $\frac{7}{10} + \frac{3}{100} + \frac{9}{1000}$  is equal to:

- (A) 0.937              (B) 0.9037              (C) 0.7309              (D) 0.739              (E) 0.0739

योग: कर्मसु कौशलम्

**Q.13** A rectangular bathroom measures 3m by 2m. It is covered with square tiles measuring 20 cm by 20cm. How many tiles are there altogether?

- (A) 300              (B) 30              (C) 150              (D) 200              (E) 400

**Q.14** If the sum of the digits of a natural number is divisible by 3, then the number itself is divisible by 3. Which of the following numbers is divisible by 3?

- (A) 101              (B) 205              (C) 97              (D) 53              (E) 801

**Q.15**

The symbol 

3	4
5	6

 is evaluated as  $3 \times 6 + 4 \times 5 = 38$ . If 

2	6
1	

 is evaluated as 16,

Then the number that should be placed in the empty space is:

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

**SECTION – B**

**Q.16** A fraction is equivalent to  $\frac{5}{8}$ . Its denominator and numerator add up to 91. What is the difference between the denominator and numerator of this fraction?

**Q.17** Rohan had 36 pens. He gave 15 of them to Ravi and 11 of them to Reena. What fraction of his original 36 pens does Rohan left? Write two equivalent fractions for that amount?

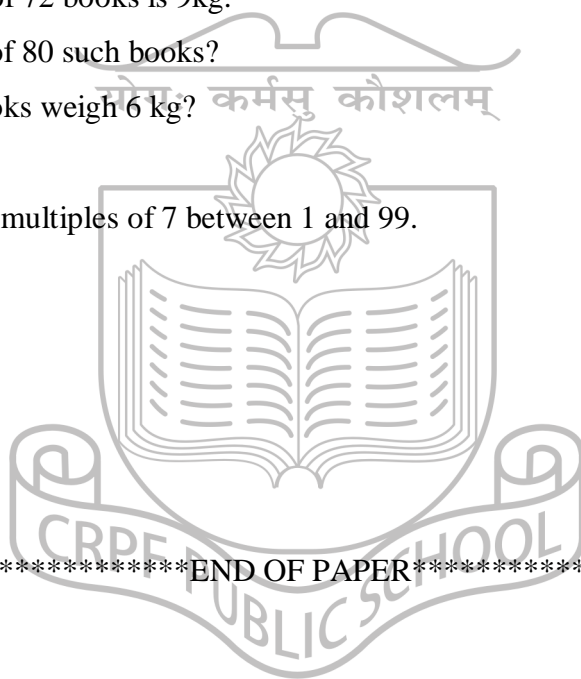
**Q.18** Divide Rs. 2400 between Rahul, Ankit and Madhu in the ratio 3: 5: 7.

**Q.19** Given that the weight of 72 books is 9kg.

i) What is the weight of 80 such books?

ii) How many such books weigh 6 kg?

**Q.20** Find the sum of all the multiples of 7 between 1 and 99.



\*\*\*\*\*END OF PAPER\*\*\*\*\*

NOTE: The **Solution Key** of this paper will be available on School's blog [www.crfpsrohini.blogspot.in](http://www.crfpsrohini.blogspot.in) today after 6 pm. The **Result** will be declared on 30 November 2012 and will be available on School's blog.