

SA-I (CLASS-VI)
SUBJECT : MATHS

9/2014

Time : 3 hrs

MM : 80

General Instructions :

- i) All questions are compulsory.
- ii) Read all questions very carefully.
- iii) Questions 1 to 10 carry 1 mark each.
- iv) Questions 11 to 18 carry 2 marks each.
- v) Questions 19 to 28 carry 3 marks each.
- vi) Questions 29 to 34 carry 4 marks each.

Q1. Fill in the blanks :

- (a) 1 crore = _____ thousands
- (b) 1 million = _____ hundreds

Q2. Express 24 as the sum of two odd primes.

Q3. Write the Roman Numeral for 72.

Q4. Write the predecessor of : 608030.

Q5. Insert commas suitably and write the name according to Indian system of numeration : 26350819.

Q6. Draw a rough figure and label suitably :

$\begin{array}{c} \longleftrightarrow \\ \text{OX} \end{array}$ and $\begin{array}{c} \longleftrightarrow \\ \text{OY} \end{array}$ meet at O.

Q7. Which is the smallest whole number?

Q8. Write the number of faces of a cube and cylinder.

Q9. Draw a number line and locate the points on it :

$$\frac{2}{7}, \frac{8}{7}, \frac{1}{7}, \frac{7}{7}$$

Q10. Write the additive identity of a whole number.

Q11. Make the greatest and the smallest 4-digit number by using any one digit twice : 3, 0, 7.

Q12. Draw rough diagram of two angles such that they have four points in common.

Q13. Express $7\frac{2}{3}$ as improper fraction.

Q14. State which whole number is on the left of the other number on the number line and give reason :

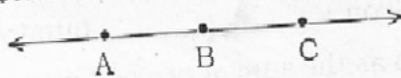
9623410, 10080030

Q15. Write geometrical shape of :

(a) A birthday cap. (b) A basket ball.

Q16. Write all the factors of 52.

Q17. Name the line given in all possible (six) ways, choosing only two letters at a time from the three given :



Q18. Which direction will you face if you start facing east and make $\frac{3}{4}$ of a revolution clockwise?

Q19. Shivam's office is $1\frac{2}{3}$ km from his house. He walks $\frac{3}{4}$ km and covers the remaining distance by autorickshaw. How much distance he travels by autorickshaw? What is the importance of physical exercise?

Q20. Using number line solve :

(a) $9 - 3$

(b) 4×3

Q21. Find the first three common multiples of 3, 4 and 12.

Q22. Draw any circle. Mark and name the following :

(a) A sector

(b) A segment

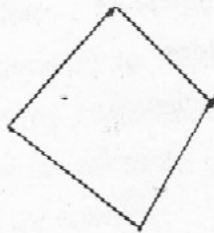
(c) A radius

Q23. Onions are packed in sacks each weighing 18kg 500g.
How many such sacks can be loaded in a truck with a
carrying capacity of 111 kg?

Q24. Find the smallest 4-digit number which is divisible by
18, 24 and 32.

Q25. Name each polygon :

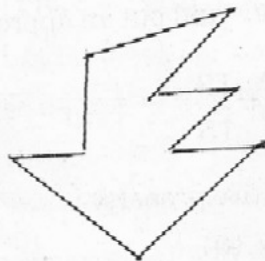
(a)



(b)



(c)



Q26. Find the equivalent fraction of $\frac{12}{18}$ having :

(a) denominator 36

(b) numerator 4

Q27. Name the types of following triangle :

(a) $\triangle ABC$ with $m\angle B = 90^\circ$

(b) $\triangle XYZ$ with $m\angle X = 30^\circ$, $m\angle Y = 70^\circ$ and $m\angle Z = 80^\circ$.

(b) $\triangle PQR$ such that $PQ = QR = PR = 6$ cm.

Q28. Write a digit in the blank space so that the number formed
is divisible by 11 :

92 ____ 389.

Q29. Give a rough estimate (by rounding off to nearest hundred^s) and also a closer estimate (by rounding off to nearest tens) :

$$383 + 1566 + 429$$

Q30. Draw a rough sketch of a quadrilateral ABCD. State :

- (a) two pairs of opposite sides
- (b) two pairs of opposite angles
- (c) two pairs of adjacent sides
- (d) two pairs of adjacent angles

Q31. (a) Add $3\frac{1}{5}$ and $2\frac{1}{3}$.

(b) Compare the fractions and put an appropriate sign:

$$\frac{5}{6} \text{ and } \frac{13}{15}$$

Q32. (a) Solve using distributive property :

$$2631 \times 101$$

(b) Using divisibility test, determine if the number is divisible by 6 :

$$3852162$$

Q33. Three drums containing diesel have capacities 240l, 165l and 205l. Find the maximum capacity of a container which can measure the diesel of three drums when used an exact number of times.

Q34. Find the number of right angles turned through by the hour hand of a clock when it goes from :

- (a) 2 to 8
- (b) 9 to 12

Also draw a figure to show the movement of hour hands on the clock.