

KENDRIYA VIDYALAYA BALLARI
HALF YEARLY EXAM (2019-20) SAMPLE PAPER -1

SUBJECT: MATHEMATICS
CLASS: VI

MAX. MARKS :80
DURATION : 2 ½ HRS

SECTION – A

Fill in the blanks. 5 X 1 = 5 marks

- 1 million = _____ hundred thousand.
- LXV = _____
- A number which has more than two factors is called a _____.
- Equivalent fractions of $\frac{2}{3} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$.
- An angle whose measure is the sum of the measures of two right angles is _____.

Answer the following: 5 X 1 = 5 marks

1. What fraction of a day is 8 hours?
2. Name the 6- sided polygon. _____
3. Write the following numbers with appropriate signs :
(a) 100 m below sea level. (b) 25°C above 0°C temperature.
4. Find the value of : $-25 - (-25) = \underline{\hspace{2cm}}$
5. Draw any circle and mark ----- a) a segment b) a sector

Tick the appropriate answer. (MCQ) 10 x 1 = 10 marks.

1. Using digits 4,5,6&0 without repetition make the greatest four digit number
(a) 4560 (b) 5640 (c) 6540 (d) 6504
 2. Which natural number has no predecessor
(a) 0 (b)1 (c)10 (d)100
 3. Whole numbers are closed under which operation
(a) Addition (b)Subtraction (c)Division (d) None of these
 4. If a number is divisible by 2 and 3 both then is divisible by
(a) 5 (b) 6 (c)8 (d)10
 5. The smallest composite number is
(a) 1 (b) 2 (c)3 (d)4
 6. Number of lines which can be drawn from one point:
(a) one (b) infinite (c)two (d)zero
 7. Where will the hand of a clock stop if it starts at 2 and makes $\frac{1}{2}$ of a revolution, clockwise?
(a) 5 (b)8 (c)11 (d) none of these
 8. What fraction of a clockwise revolution does the hour hand of a clock turn through, when it goes from 6 to3
(a) $\frac{1}{2}$ (b) $\frac{3}{4}$ (c) $\frac{1}{4}$ (d) none of these
-
-

9. Which of the following statement is true:

(a) 2 subtracted from -3 gives 1

(b) -1 subtracted from -5 gives 6

(c) 3 subtracted from -8 gives -11

(d) 1 subtracted from -7 gives -6

10. What fraction of an hour is 45 minutes?

(a) $\frac{1}{8}$

(b) $\frac{8}{1}$

(c) $\frac{3}{1}$

(d) $\frac{1}{3}$

SECTION – B 6 X 2 = 12 marks

1. What fraction of a clockwise revolution does the hour hand of a clock turn through, when it goes from (a) 3 to 9 (b) 4 to 7 ?

2. Find the HCF of 15, 25 and 30

OR

Write the smallest 5-digit number and express it in the form of its prime factors.

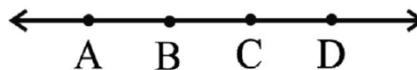
3. Reduce the following fractions to simplest form : (i) $\frac{48}{60}$ (ii) $\frac{84}{98}$

4. Estimate the product 5981×4428 by rounding off each number to the nearest hundreds

OR

Give a rough estimate (by rounding off to nearest hundreds) : $439 + 334 + 4,317$

5. Name the line given in all possible (twelve) ways, choosing only two letters at a time from the four given.



6. Represent the following numbers on a number line : (a) $+5$ (b) -10

SECTION – C 8 X 3 = 24 marks

1. Write in Roman Numerals (a) 69 (b) 98 (c) 55

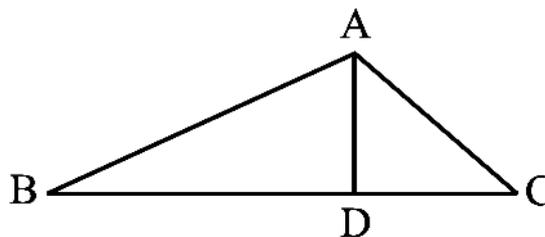
2. Find the product using suitable properties a) 738×103 (b) 854×102

3. Arrange the fractions $\frac{2}{3}, \frac{3}{4}, \frac{1}{2}$ and $\frac{5}{6}$ in ascending order.

OR

4. Jaidev takes $2\frac{1}{5}$ minutes to walk across the school ground. Rahul takes $\frac{7}{4}$ minutes to do the same. Who takes less time and by what fraction?

5. (a) Identify three triangles in the figure.
a. Write the names of seven angles.
b. Write the names of six line segments.



6. Using divisibility tests, determine which of following two numbers are divisible by 6:

(a) 297144

(b) 1258

6. Name the types of following triangles:

- (a) Triangle with lengths of sides 7 cm, 8 cm and 9cm.
- (b) ΔABC with $AB = 8.7$ cm, $AC = 7$ cm and $BC = 6$ cm.
- (c) ΔPQR such that $PQ = QR = PR = 5$ cm.

7. Draw a rough sketch of a regular hexagon. Connecting any three of its vertices, draw a triangle. Identify the type of the triangle you have drawn.

OR

How many right angles do you make if you start facing

- (a) south and turn clockwise to west?
- (b) north and turn anti-clockwise to east?
- (c) west and turn to west?

SECTION – D 6 X 4 = 24 marks

1. The number of sheets of paper available for making notebooks is 75,000. Each sheet makes 8 pages of a notebook. Each notebook contains 200 pages. How many notebooks can be made from the paper available?

2. Draw a rough sketch of a quadrilateral PQRS. 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.

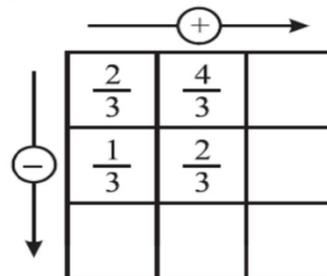
3. In a morning walk, three persons step off together. Their steps measure 80 cm, 85 cm and 90 cm respectively. What is the minimum distance each should walk so that all can cover the same distance in complete steps?

OR

Find the least number which when divided by 6, 15 and 18 leave remainder 5 in each case.

4. A taxidriver filled his car petrol tank with 40 litres of petrol on Monday. The next day, he filled the tank with 50 litres of petrol. If the petrol costs Rs 44 per litre, how much did he spend in all on petrol?

5. Complete the addition-subtraction box.



6. Using the number line write the integer which is : (a) 3 more than 5 (b) 5 more than -5

OR

Find the sum:

- (a) $(-7) + (-9) + 4 + 16$
- (b) $(37) + (-2) + (-65) + (-8)$

.....

=====