

ATOMIC ENERGY EDUCATION SOCIETY

(2015-16)

Sub: Mathematics

Sample Paper

Class: 6

SECTION A

Q.1 Choose the correct answer from the choices given

- i. Decimal form of two ones and five hundredth is :
a) 25 b) 2.5 c) 2.05 d) 2.005
- ii. The ratio of 50 paise to Rs.10 is :
a) 1 : 20 b) 1 : 50 c) 5 : 1 d) none of these
- iii. Place value of 5 in 20.5 is :
a) 5 b) 50 c) $\frac{5}{10}$ d) $\frac{5}{100}$
- iv. Data collected directly from the source is called _____
a) Observation b) Frequency
c) Primary data d) Secondary Data
- v. The length and breadth of a rectangle are 5.7 cm and 4.3 cm respectively. Its perimeter is _____
a) 10 cm b) 20 cm c) 24.51 cm d) 40 cm
- vi. Area of a square of side 6 cm is _____
a) 12 cm^2 b) 24 cm^2 c) 36 cm^2 d) 48 cm^2
- vii. Choose the correct statement for 8 added to the product of 5 and x
a) $5x + 8$ b) $(5+x) \times 8$ c) $8x + 5$ d) none of these
- viii. Shiv's present age is x years. Five years ago his age was _____
a) $x + 5$ b) $5 - x$ c) $x - 5$ d) $5x$
- ix. Which of the following figure has 4 lines of symmetry
a) Square b) Rectangle c) both a & b d) none of these
- x. Circles with the same centre but different radii are called _____
a) Semi Circle b) Concurrent Circles
b) Concentric Circle d) none of these
- xi. If $\frac{x}{21} = \frac{24}{63}$, then x is _____
a) 5 b) 6 c) 7 d) 8
- xii. The lowest form of 60 : 150 is
a) 6 : 15 b) 2 : 5 c) 1 : 3 d) 3 : 5

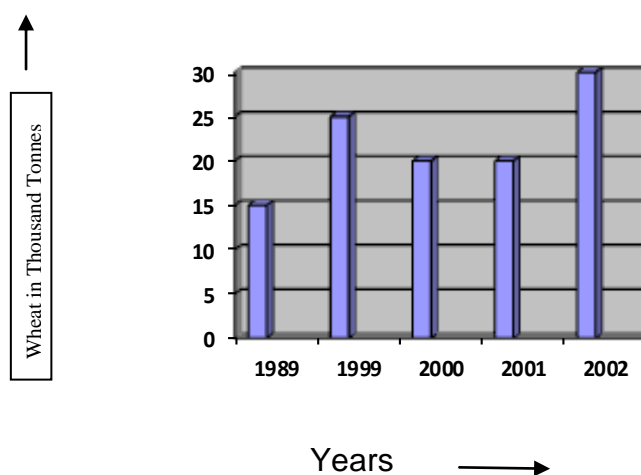
- xiii. Which of the following is an equation with a variable
a) $5x = 9$ b) $7 - t > 5$ c) $12 + 5 = 17$ d) $20 - x < 10$
- xiv. Perimeter of a regular pentagon of one side 5 cm is _____
a) 10 cm b) 20 cm c) 25 cm d) 15 cm
- xv. The data represented in the form of pictures are called _____
a) Bar Graph b) Pictograph c) Pai chart d) None of these

SECTION B

2. Add $15 + 0.632 + 13.8$
3. Write 3.8 as fraction in the lowest form.
4. Is $y = 4$, a solution to $3y - 8 = 4$?
5. Find z in $9z = 216$
6. Check whether 45 km : 60 km and 12hour : 15 hours are in proportion ?
7. Draw a figure having 2 axes of symmetry.
8. Draw any line segment AB Mark any point 'M' not lying on it. Through M draw a perpendicular to AB. using ruler and compass.
9. List 4 letters of English alphabets which have no lines of symmetry.
10. Find the ratio of 30 minutes to 1.5 hours.
11. A table top measures 2 m 25 cm by 1 m 50 cm find the area of table top in Sq.cm.
12. Area of a rectangular garden 50 m long is 300 Sq.m. Find the width of the garden.

SECTION C

13. The bar graph given shows the amount of wheat produced during the years 1989 to 2002



- Read the above bar graph and answer the following Questions.
- What information does the above bar graph give?
 - In which year was the wheat production maximum?
 - In which year the wheat production minimum?
 - In which years the wheat production was the same?
14. Construct an angle of measure 45° using ruler and compass.
15. Cost of 5 kg of sugar is Rs.30.50
- What will be the cost of 8 kg of sugar?
 - What quantity of sugar can be purchased in Rs.61?
16. Draw a rhombus. How many lines of symmetry does it have? Draw and show them.
17. Naresh walked 2 km 35 m in the morning and 1 km 7 m in the evening. How much distance in km. did he walk in all?
18. Find the cost of fencing a rectangular park of length 175 m and breadth 125 m at the rate of Rs.12 per metre.
19. A bus is going from Mumbai to Pune at the speed of V km per hour. After the bus has travelled 3 hours, Pune is still 45 km away. What is the distance from Mumbai to Pune? Express it using V .
20. Divide 20 pens between Sheela and Sangeeta in the ratio 3 : 2.

