# ST. THOMAS SCHOOL INDIRAPURAM

### SUMMER VACATION HOLIDAY HOMEWORK (2020-21)

# CLASS – VII SUBJECT – MATHEMATICS

### ACTIVITY :

Study about symmetry and its types. Find and mention where it is used in architecture, designing, etc. Do this project in A4 sheet/drawing sheet and submit the same to your respective teachers through mail id.

### WORKSHEET

- 1. Find the mean of first 12 odd numbers.
- Verify and name the property used:
  25 x [ (-32) + (-16) ] = 25 x (-32) + 25 x (-16)
- 3. Simplify : 6142 x 79 + 6142 x 16 + 6142 x 5
- A bag contains 3 red, 2 blue and 5 white balls. A ball is drawn at random.
  What is the probability of drawing a red ball, a white ball and a blue ball.
- Find mean, median and mode for the following data:
  7, 8, 3, 8, 6, 12, 16, 9, 11, 9, 10.
- 6. In a test (+5) marks are given for every correct answer and (-2) for incorrect answer. (i) Radhika answered all the questions and scored 30 marks though she got 10 correct answers. (ii) Rohan also answered all the questions and scored (-12) marks though he got 4 correct answers. How many incorrect answers had they attempted?
- 7. Find the product using properties:
  - (i)  $8 \times 53 \times (-125)$  (ii)  $625 \times (-35) + (-625) \times 65$
- 8. Write down a pair of integers whose:
  - (i) Sum is -3 (ii) difference is -5 (iii) sum is 0
- The ages in years of 10 teachers of a school are as follows:
  32, 41, 28, 54, 35, 26, 23, 33, 38, 40
  - (i) What is the age of the oldest and the youngest teacher?
  - (ii) What is the range of the ages of teachers?
  - (iii) What is the mean age of these teachers?
- 10. Find the mean of all composite numbers between 1 to 15(exclude 15).
- 11. Find the median of the data: 24, 36, 35, 46, 17, 18, 25.

- 12.A can contains 14litres of oil. 50ml of oil leaked. How many pouches of 930ml each can be made from the remaining oil?
- 13. In a bag there are 9 cards bearing numbers 1 to 9. A card is picked up at random. What are the chances of picking :
  - (i) 3 (ii) odd number (iii) prime number (iv) even number.
- 14. Answer the following:
- (i) Find the average of your study hours for 3 days of the week.
- (ii) Find the mean of your sleeping hours during the week.
- (iii) A number is drawn at random from 21 to 32. What is the probability of getting an odd number?
- (iv) A dice is rolled once. What is the probability of getting a number less than 5.

15.Fill in the blanks:

- (i) The greatest negative integer is\_\_\_\_\_.
- (ii) The multiplication identity of integers is \_\_\_\_\_.
- (iii) The integer \_\_\_\_\_\_ is neither positive nor negative.
- (iv) The additive inverse of 7 is\_\_\_\_\_.
- (v) The integer 5 more than -4 is \_\_\_\_\_.