

**FIRST TERM MODEL QUESTION PAPER 2024 WITH ANSWER KEY SET 1**

**MATHS - Standard V**

**Time: 2 hours**

**(Prepared by [www.educationobserver.com](http://www.educationobserver.com))**

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**Activity 1**

- (a) Draw a rectangle with a base of 6 cm and a height of 4 cm.
- (b) Measure the top side of the rectangle. Is it the same length as the bottom side? Explain your observation.
- (c) Now, draw another rectangle with the same base (6 cm) but with the height slightly tilted. Measure the top side again. What difference do you notice?

**Activity 2**

- (a) Using a compass, draw a circle with a radius of 4 cm.
- (b) Draw a straight line passing through the center of the circle and measure its length. What is this line called?
- (c) Using the same center, draw a smaller circle with a radius of 2 cm. Describe the shape formed by the overlapping areas of the two circles.

**Activity 3**

- (a) Write the number 987654321 in words.
- (b) What is the smallest 9-digit number?
- (c) If you move the digit 1 in the number 1,000,000 one place to the left, what does the number become?

**Activity 4**

- (a) Multiply 18 by 12 using the method of breaking down the numbers into tens and units (e.g.,  $18 = 10 + 8$ ).
- (b) Without drawing, estimate the product of 15 multiplied by 15 using the same method.
- (c) Compare the products of 13 multiplied by 9 and 19 multiplied by 3. Which product is larger, and by how much?

**Activity 5**

- (a) Divide 75 by 8. Find the quotient and the remainder.
- (b) Explain the significance of the remainder in this division.
- (c) Express the number 45 as a product of a whole number by itself plus a remainder when divided by 7.

**Activity 6**

- (a) List the first five square numbers.
- (b) Calculate the square of 1111. Does it follow the same pattern as smaller square numbers?
- (c) How many odd numbers must be added together to get the square number 49?

**Activity 7**

- (a) If 192 rupees are shared equally among 8 people, how much will each person get?
- (b) Show the step-by-step process of how you arrived at the answer using division.
- (c) If 240 rupees are divided among the same number of people, how does the amount each person receives change?

**Activity 8**

- (a) Write the number 1111 as a multiple of 9 and find the remainder.
- (b) Explain how to find the remainder when dividing 9876 by 8 without performing the full division.
- (c) Create a similar pattern using the number 12345, dividing by 7, and find the remainder.

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