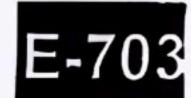
SAMAGRA SHIKSHA KERALA **SECOND TERM EVALUATION 2024-2025**



Mathematics Standard: VII Time: 2 Hrs

- 15 minutes is given as cool-off time.
- Read the questions carefully during this time.
- Attempt any six activities from the activities given.

Activity 1

 $101 \times 102 = 10302$. Analyse the operations given below.

- A. 1.01×10.2
- 0.101×10.2
- 10.1×10.2
- 101×0.102
- 1.01×0.102
- Which are the operations having the same products? a)
- Find the operations of the largest product and the least product. h)
- When 101 is multiplied by a particular number, we get 1030.2. Find the number c) from the following.
 - A) 102
- B) 1.02
- C) 10.2
- D) 0.102

Activity 2

- The sides of a rectangle having perimeter 40 centimetres are in the ratio 1:3. What is the a) area of the rectangle?
- What is the ratio of the area of this rectangle to the area of a square with same perimeter? b)
- Which of the following measurements show the length and breadth in the ratio 3:2? c)
 - length 3 metres, breadth $1\frac{1}{2}$ metres
 - length 75 centimetres, breadth 25 centimetres
 - length 2 metres, breadth 1.5 metres
 - length 6 centimetres, breadth 4 centimetres D.

Activity 3

Identify similar operations in the second column that match those in the first column.

- (125 75) 25 125 + (75 + 25)a)
- b) 125 - (75 - 25)
- 125 (75 + 25)
- (125 + 75) 25c)
- (125 75) + 25
- (125 + 75) + 25d)
- 125 + (75 25)

- e) Which among the following denotes the algebraic form of 3 times a number added to 4 times the same number?
 - Λ) 3x + 4
 - B) 4x + 3x
 - C) 4x + 3
 - 1) 4x + 3y

Activity 4

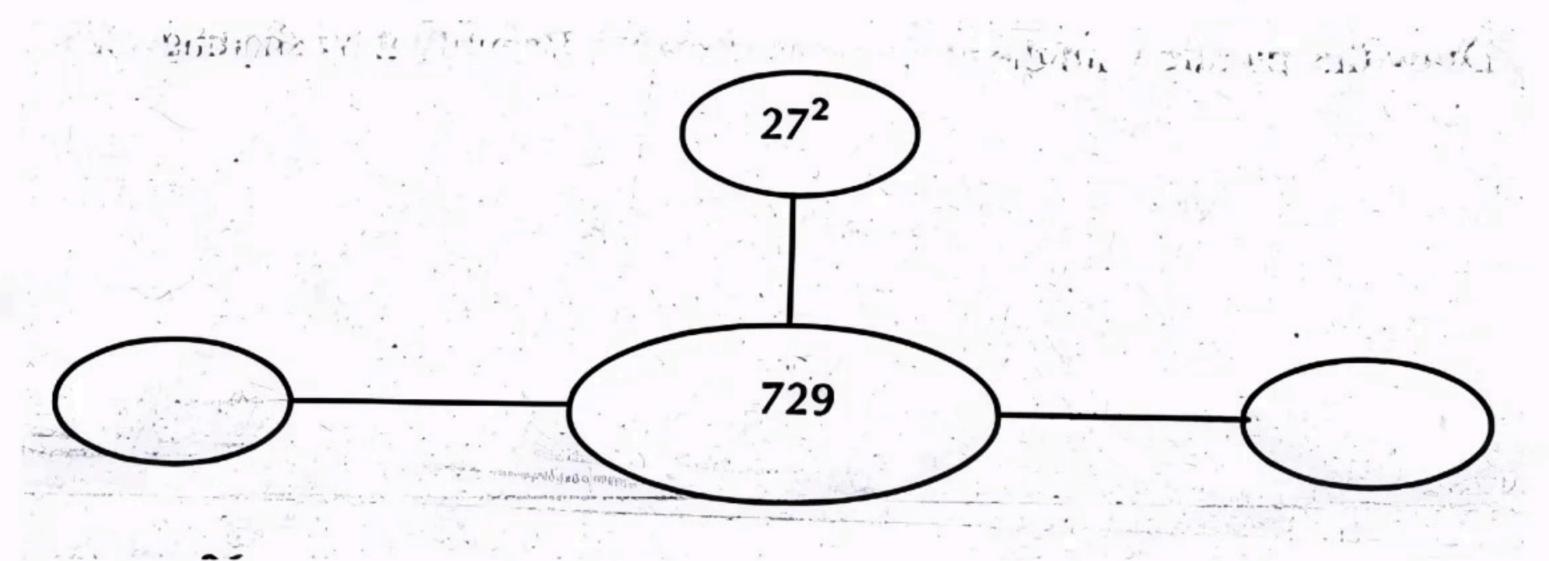
- Write the product of the numbers 5 to 10 as the product of the powers of prime numbers.
- b) Which is the greatest power of 3 that can divide the above product?
- c) How many zeros are there at the end of the product of numbers from 5 to 10?

Activity 5

- a) Write 72 as the product of the powers of prime numbers?
- b) Write all the factors of 72.
- c) Which of the following has 8 factors?
 - A) 12×13
- B) 16×17
- C) 22×23
- D) 30×31

Activity 6

a) 729 is written as the powers of different numbers. Fill the missing ones.



- b) Simplify $\frac{96}{128}$ by writing in exponential form.
- c) Which of the following is the half of 46?
 - A) 4^{5}

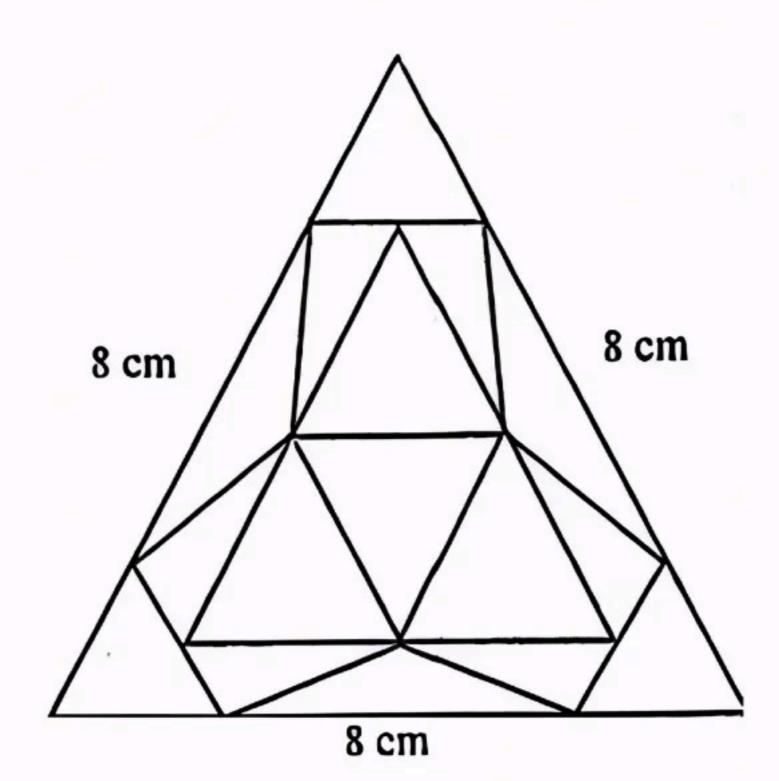
- B) 26
- C) 2^{11}
- D) 4³

Activity 7

- When a tank is filled to its $\frac{2}{3}$ part, it contains 1000 litres of water. How much water will be in the tank when it becomes full?
- b) A rectangle has an area of $12\frac{1}{2}$ square metres and breadth $1\frac{1}{4}$ metres. What is its length?

- c) Which is the decimal form of $\left(\frac{1}{2}\right)^3$?
 - Λ) 0.250
- B) 0.825
- C) 0.625
- D) 0.125

Activity 8



Draw this picture with the given measurements. Beautify it by shading suitably.