



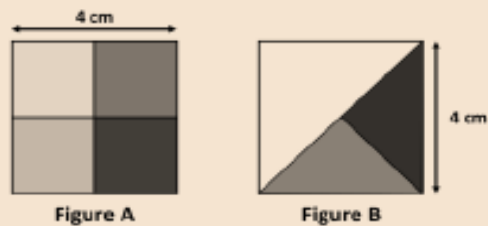
SUBJECT: MATHEMATICS

CLASS-VI

OCTOBER,2026

COMPUTATIONAL THINKING WORKSHEET

1. Figures A and B represent squares which are divided into different parts, as shown in the image below. Which of the following options correctly represents the relation between the division?



- a) + <
- b) + + <
- c) + + =
- d) =

2. The perimeter of a square X is 16 cm. The square is cut along its diagonal to form two identical triangles.

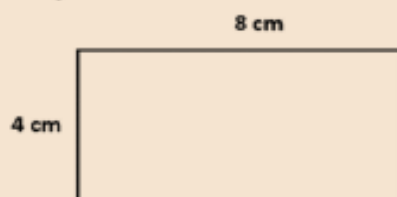
Which of these statements is DEFINITELY FALSE based on the above information?

- a) Two sides of the triangle meet each other perpendicularly
b) The length of at least one side of each triangle is 4 cm
c) The combined area of the triangles is 16 cm^2
d) The combined perimeter of the triangles is 16 cm
3. A larger block is formed using 4 small cubes (2 grey cubes and 2 white cubes), as shown below.



- a) 4 b) 5 c) 3 d) 2

4. How many times should the given paper sheet be folded in half so that the perimeter of the new shape is 16 cm?



- a) 0 b) 1 c) 2 d) 3

5. Grid M is made using regular hexagons (like Shape A), as shown. Additional copies of Shape A may be attached only along the outer sides of Grid M, and each added shape must share at least one full side with the existing grid. The shapes must be added such that the total perimeter of the grid remains unchanged. What is the MAXIMUM number of Shape A pieces that can be added?



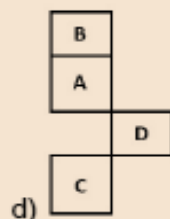
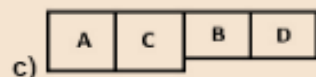
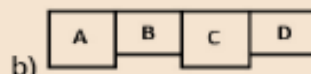
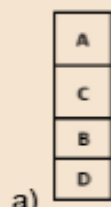
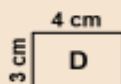
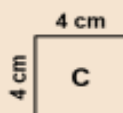
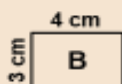
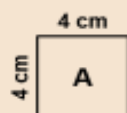
Grid M



Shape A

- a) 2 b) 3 c) 4 d) 6

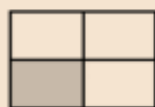
6. All the squares and rectangles given below are to be used to form an arrangement. The arrangement shown in which of these options will give the HIGHEST perimeter?



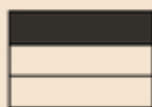
7. If figures A, B, and C are all of the same dimensions, which of the following coloured blocks has the largest area?



A



B



C

- a) Red b) Yellow
c) Green d) All of them have an equal area

8. A square frame has a side length of 16 cm. Inside it, four square-shaped photographs of side 4 cm are to be placed such that:

- Each photograph touches the CORNER of at least one other photograph
- No two photographs share a common side
- The photographs do not overlap

What is the LARGEST square-shaped empty space that can be seen inside the frame, finally?

- a) 9 cm² b) 16 cm² c) 64 cm² d) 192 cm²