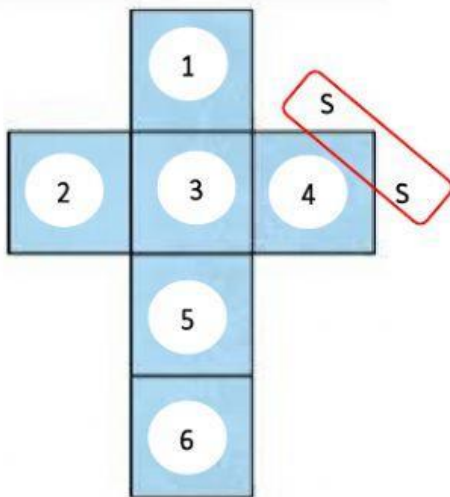
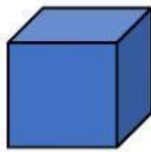


Find the missing side of A Cube, given surface area

Steps to Success:

1. Read & highlight
2. Draw the net of a cube
3. Find the area of 1 square
4. Write the area in the net
5. Write the formula & solve

$$\text{SA of Cube} = (S \times S) \times 6$$



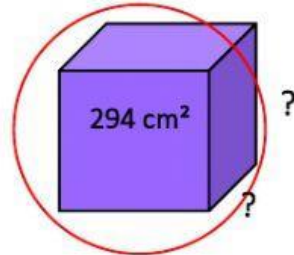
Net of a cube

$$\text{SA of Cube} = (S \times S) \times 6$$

MISSING SIDE

Steps to Success:

1. Read & highlight
2. Write the formula
 $\text{SA of Cube} = (S \times S) \times 6$
3. Fill in the info
4. Apply algebra
5. Find the **CUBE ROOT** ✓
6. Check



$$\text{SA of Cube} = (S \times S) \times 6$$

$$294 \text{ cm}^2 = (S \times S) \times 6$$

$$(S \times S) \times 6 = 294 \text{ cm}^2$$

$$(S \times S) = 294 \div 6$$

$$(S \times S) = 49$$

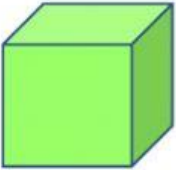
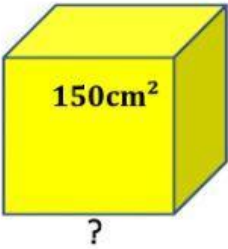
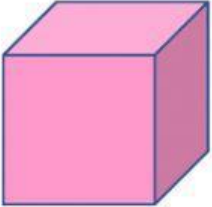
$$S^2 = 49$$

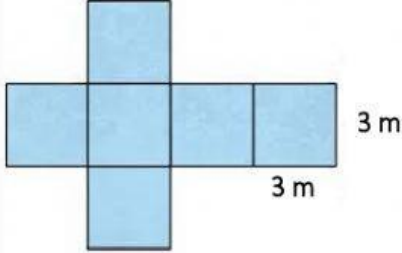
$$S = \sqrt{49}$$

$$= 7$$

$$\text{Check : } (7 \times 7) \times 6 = 294 \text{ cm}^2$$

Answer all questions. Each question carries 2 marks.

BIL	QUESTION	ANSWER & WORKING SPACE
1	<p>Find the Surface area of the cube below:</p>  <p>9 m</p>	<p>Answer : _____ m²</p>
2	<p>Find the missing side of a cube with a total surface area of 150cm²</p>  <p>150cm²</p> <p>?</p>	<p>Answer : _____ cm</p>
3	<p>The total surface area of a cube is 486cm². What is the length of each side of the cube?</p> 	<p>Answer : _____ cm</p>

BIL	QUESTION	ANSWER & WORKING SPACE
4	<p>Find the surface area of the figure below:</p> 	<p>Answer : _____ m²</p>
5	<p>The total surface area of a cube is 96cm². What is the length of each side of the cube?</p>	<p>Answer : _____ cm</p>
6	<p>The total surface area of a cube is 600cm². What is the length of each side of the cube?</p>	<p>Answer : _____ cm</p>