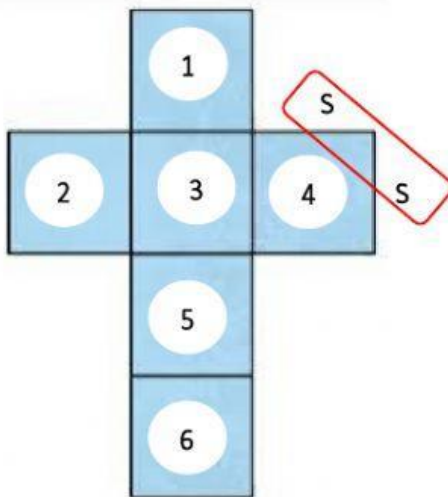
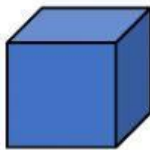


# Find the missing side of A Cube, given surface area

## 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

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



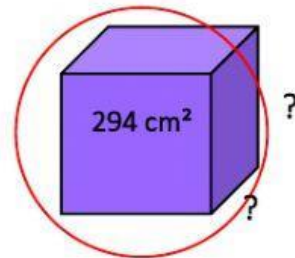
Net of a cube

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

## 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



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

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

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

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

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

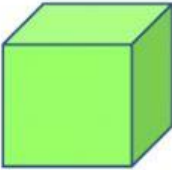
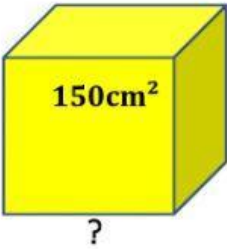
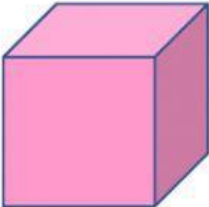
$$S^2 = 49$$

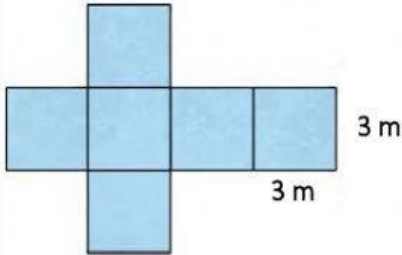
$$S = \sqrt{49}$$

$$= 7$$

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

Answer all questions. Each question carries 2 marks.

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

BIL	QUESTION	ANSWER & WORKING SPACE
4	<p>Find the <b>surface area</b> of the figure below:</p> 	<p>Answer : _____ <b>m<sup>2</sup></b></p>
5	<p>The total <b>surface area</b> of a cube is <b>96cm<sup>2</sup></b>. What is the <b>length of each side of the cube</b>?</p>	<p>Answer : _____ <b>cm</b></p>
6	<p>The total <b>surface area</b> of a cube is <b>600cm<sup>2</sup></b>. What is the <b>length of each side of the cube</b>?</p>	<p>Answer : _____ <b>cm</b></p>