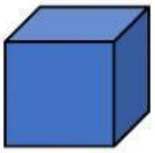
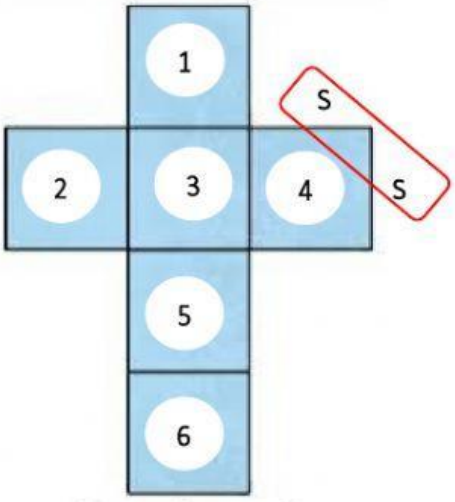
Find the missing side of A Cube, given surface area

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

SA of Cube = (S x S) x 6





Net of a cube

SA of Cube = (S x S) x 6

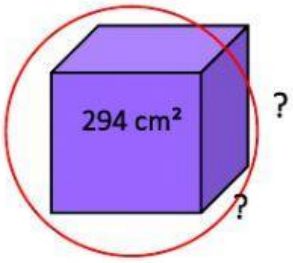
MISSING SIDE

Steps to Success:

1. Read & highlight
2. Write the formula

SA of Cube = (S x S) x 6

3. Fill in the info
4. Apply algebra
5. Find the **CUBE ROOT √**
6. Check



SA of Cube = (S x S) x 6

294 cm² = (S x S) x 6

(S x S) x 6 = 294 cm²

(S x S) = 294 ÷ 6

(S x S) = 49

S^2 = 49

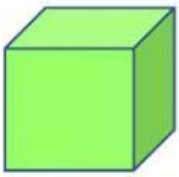
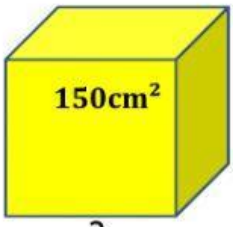
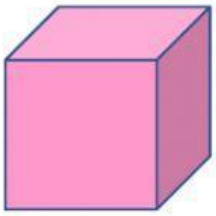
S = √49

= 7

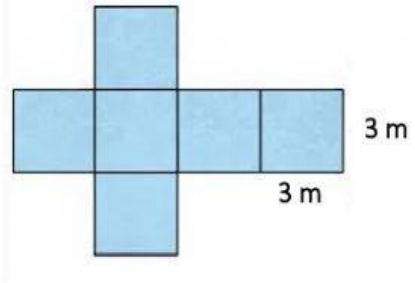
Check : (7 x 7) x 6 = 294cm²

LIVEWORKSHEETS

Answer all questions. Each question carries 2 marks.

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

LIVEWORKSHEETS

BIL	QUESTION	ANSWER & WORKING SPACE
4	Find the **surface area** of the figure below: 	Answer : _____ **m^2**
5	The total **surface area of a cube is 96cm².** What is the **length of each side of the cube**?	Answer : _____ **cm**
6	The total **surface area of a cube is 600cm².** What is the **length of each side of the cube**?	Answer : _____ **cm**

LIVEWORKSHEETS