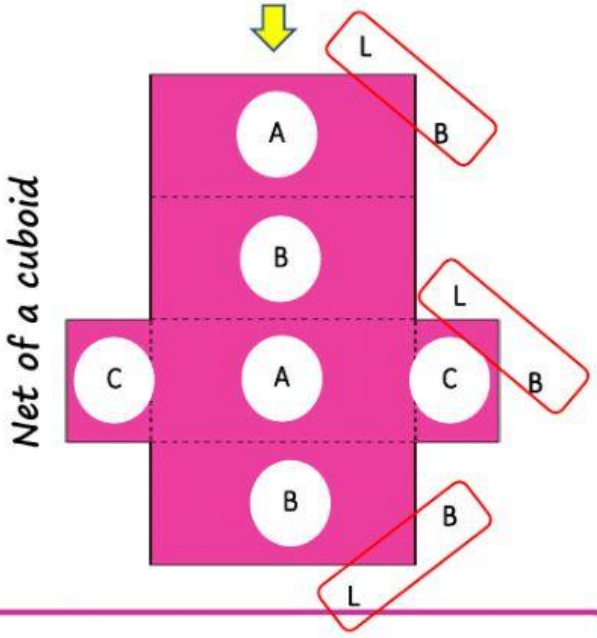
Find the missing side of A CUBOID, given surface area

Steps to Success:

1. Read & highlight
2. Draw the net of a cuboid
3. Label all the nets
4. Find the area of A x 2
5. Find the area of B x 2
6. Find the area of C x 2
7. Add all the area:

SA of Cuboid = (Area A x2) + (Area B x2) + (Area C x2)



SA of Cuboid =

(Area A x 2) + (Area B x 2) + (Area C x 2)

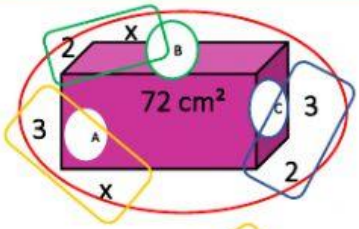
MISSING SIDE

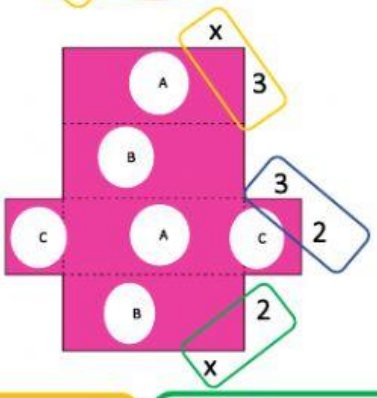
Steps to Success:

1. Read & highlight
2. Label the surface of the cuboid.
3. Put X on missing sides
4. Write the formula:

SA of Cuboid = (Area A x2) + (Area B x2) + (Area C x2)

5. Fill in the info & solve
6. Apply algebra → 7. Check





Area of A = (X x 3) x 2

= 6X cm²

Area of B = (X x 2) x 2

= 4X cm²

Area of C = (3 x 2) x 2

= 12cm²

Total SA = Area A + Area B + Area C

72 cm² = 6X + 4X + 12

72 cm ² = 10X + 12

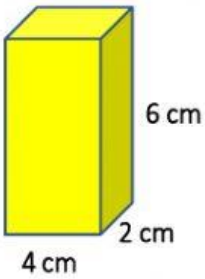
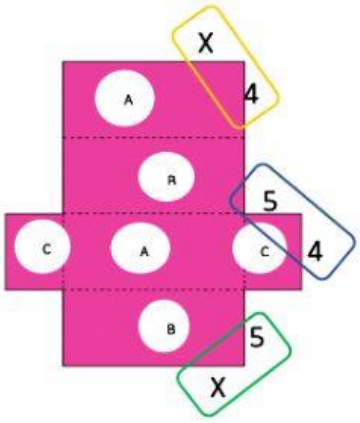
1OX + 12 = 72 - 12

1O X = 60 ÷ 1O

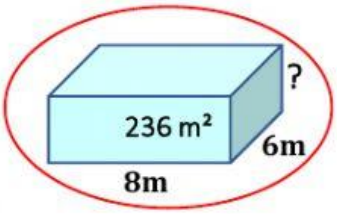
X = 6cm

LIVEWORKSHEETS

Answer all questions. Each question carries 2 marks.

BIL	QUESTION	ANSWER & WORKING SPACE
1	Work out the **surface area of the cuboid** below:  	Answer : _____ **cm^2**
2	The **height and the breadth** of a cuboid are **4cm and 5cm**. The **surface area** of the cuboid is **$220cm^2$**. Find the height of the cuboid.  	Answer : _____ **cm**
3	A cuboid measures **12m length, 7 m breadth and 8m height**. Find the surface area of the cuboid. 	Answer : _____ **m^2**

LIVEWORKSHEETS

BIL	QUESTION	ANSWER & WORKING SPACE
4	The **length and the breadth** of a cuboid are **8m and 6m**. The **surface area** of the cuboid is **236m²**. Find the height of the cuboid. 	Answer : _____ **m**
5	The **length and the breadth** of a cuboid are **15 cm and 8 cm**. The **surface area** of the cuboid is **700cm²**. Find the height of the cuboid.	Answer : _____ **cm**
6	The **length and the height** of a cuboid are **11 cm and 7 cm**. The **surface area** of the cuboid is **478cm²**. Find the breadth of the cuboid.	Answer : _____ **cm**

LIVEWORKSHEETS