

Find the hypoteneus

November 14, 2016

$\sqrt{64}$
 8

$\sqrt{80}$

$\sqrt{81}$
 9

$c^2 = a^2 + b^2$

$c^2 = 4^2 + 8^2$

$c^2 = 16 + 64$

$\sqrt{c^2} = \sqrt{80}$

$c = 8.9$

To Find Surface Area...

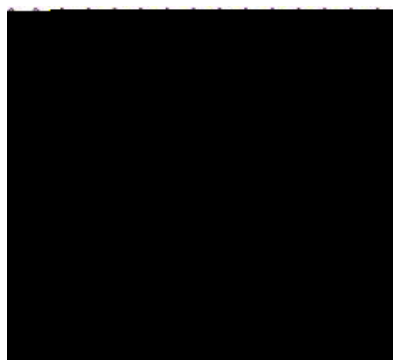
Step 1 Draw the faces

Step 2 Find the area of each face

Step 3 Add the area of each face

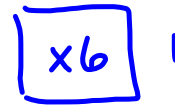
Surface Area of Composite Objects

A composite object is the result of combining **one or more objects to make a new object**



Number of Cubes	Surface Area (square units)
1	6
2	10
3	14
4	18
5	22

SA of one cube



SA one cube 1

$$A = bh$$

$$= 1 \times 1$$

$$= 1 \text{ unit}^2$$

$$\times 6 \text{ faces}$$

$$1 \text{ cube } 6 \text{ units}^2$$

(3 cubes x 6 = 18)

$$- \frac{4}{14}$$

faces lost

$$\rightarrow 4 \text{ cubes } \times 6 = 24$$

$$- \frac{6 \text{ faces}}{18}$$

***Each connection give a loss of two faces ***

6 cubes $\times 6$

$$\begin{array}{r} \text{TSA} \quad 36 \\ - 10 \text{ (5 connections = 10 faces lost)} \\ \hline 26 \end{array}$$

Find the surface area.

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to find
picture.



①

of cubes \times surface area of 1 cube

$$4 \times 6 \text{ units}^2$$

$$24 \text{ units}$$

②

Total Surface area - # faces lost

[TSA]

$$24 - 6$$

18 units

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① #cubes x SA of one
 3×6
 18

② TSA - #faces lost
 $18 - 4$
 14 units²

① #cubes x SA of one
 4×6
 24

② TSA - #faces lost
 $24 - 6$
 18 units²

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c, d, e, f



cubes x SA of 1
 5×6
 30
 TSA - faces lost
 $30 - 8$
 22 units^2



cubes x SA of 1
 5×6
 30
 TSA - faces lost
 $30 - 10$
 20 units^2

e)



5×6
 30 units
 TSA - # faces lost
 $30 - 8$
 22 units

f)



① Total cubes
 $6 \times 6 = 36$
 ② TSA - # faces lost
 $36 - 10$
 26 units²