Key

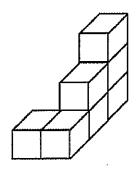
Formulas:

Area of Rectangle: b x h

Area of Triangle: $b \times h \div 2$

Area of Circle: $3.14 \times r^2$

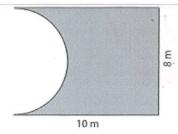
Circumference: 3.14 x d



- a. 29 cm²
- b. 28 cm² c. 24 cm² d. 26 cm²

- ___2. How many meters (m) is 45.6 km?
- a. 4560
- b. 0.0456
- d. 456000

_3. Find the area of the following compound shape. (use 3.14 for Pi)

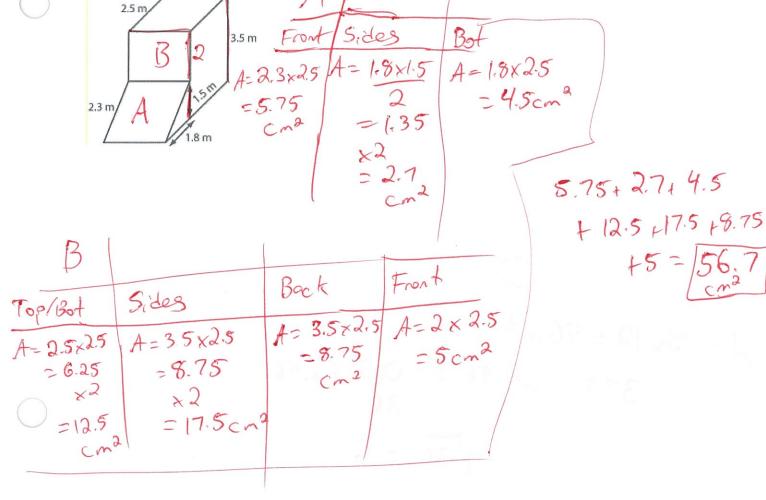


a. 54.88 m² b. 83.65 m²

c. 80 m² d. 60.73 m²

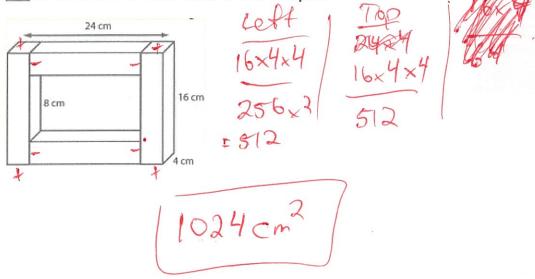
____ 4. The object is decomposed into a rectangular prism and triangular prism.

Calculate the area

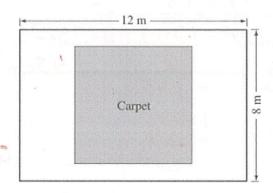


Don't need to subtract overlap because I didn't add top/bot





6. A **square** carpet covers 37.5% of the floor area of a rectangular room, as shown below. What is the **Side length** of the carpet shown below?



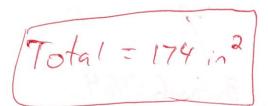
$$A = 8 \times 12 = 96 \text{ m}^2$$

 $37.5\% \text{ of } 96 = 0.375 \times 96$
 $= 36$
 $= 36$



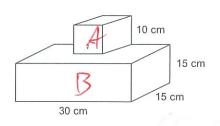
3 in 5 in

BAY



8. This figure is a CUBE on top of a rectangular prism.

Calculate the **total surface area** of the following figure



4-500+2250-100cm

A= lxw x5 = 10x10x5 =500cm2

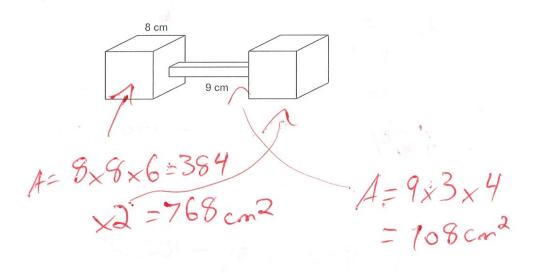
$$A = 30 \times 15$$
 F/B
= 450 ×2
= 900 cm² = 22
 $A = 15 \times 15$ Sides
= 225 ×2
= 450
 $A = 15 \times 30$ T/Bot
= 450 ×2

9. This object is composed of two identical cubes joined by a right rectangular prism that look like Thor's dumbbells.

The edge length of each cube is 8 cm.

The rectangular prism is 9 cm long and has square ends of side length 3 cm.

Determine the surface area of the object.



$$A = 768 + 108 - (3x3x2)$$

$$= 768 + 108 - 18$$

$$= 858 \text{ cm}^{2}$$