Curriculum Outcome

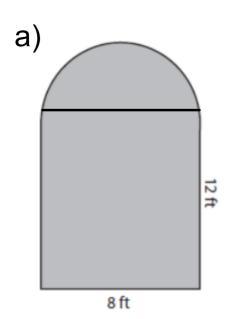
- (N5) Determine the square root of positive rational numbers that are perfect squares.
- (N6) Determine an approximate square root of positive rational numbers that are non-perfect squares.
- (SS2) Determine the surface area of composite 3-D objects to solve problems
- (N4) **Explain and apply the order of operations, including exponents, with and without technology.**

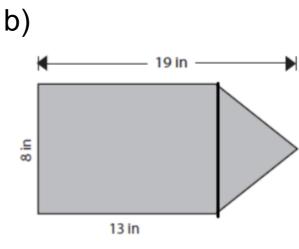
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What is the surface area of each shape?

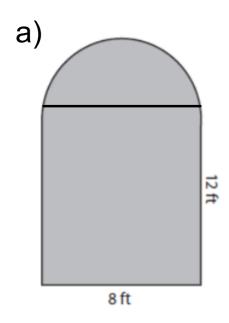




Warm Up



What is the surface area of each shape?



$$A = bxh$$

$$A = 8ft x 12ft$$

$$A = 96 ft$$

$$A = \pi r^{2}$$

$$A = 3.14 (4ft)^{2}$$

$$A = 3.14 (16ft)^{2}$$

$$A = 50.24 ft^{2}$$

$$50.24 ft^{2}$$

$$2$$

$$4 = 25.12 ft^{2}$$

$$T_A = 96ft^2 + 25.12 ft^2$$

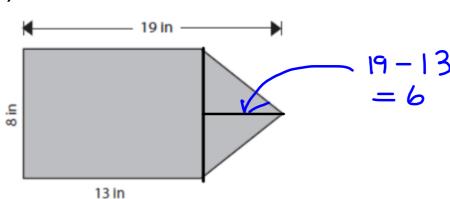
= 121.12 ft²





What is the surface area of each shape?

b)





$$A = bxh$$

$$A = \frac{8 \times 6}{2}$$

$$A = 24in^2$$

$$T_A = 104in^2 + 24in^2$$

= 128 in²

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Surface Area

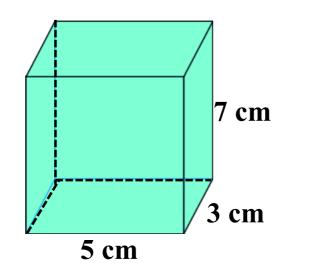
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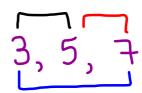
Surface area is the total area of all of the faces of the object.

Steps needed to find Surface area are:

- 1. Draw all of the faces with dimensions displayed on them.
- 2. Find the area of each face.
- 3. Then add up the areas of all of the faces.

Determine the surfaces area of each shape?





- 1. Draw all of the faces with dimensions displayed on them.
- 2. Find the area of each face.

$$A = b \times h$$

$$A = \rho \times \rho$$

$$A = 3 \times 5$$

$$A = 5x^3$$

$$A = 35 \text{ cm}^2$$

$$2A = 30cm^2$$

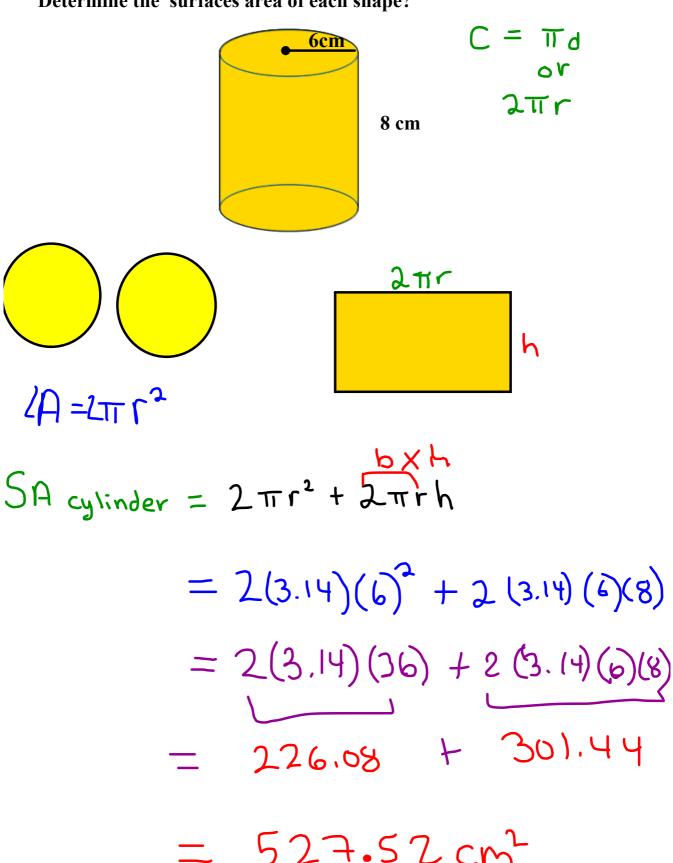
3. Then add up the areas of all of the faces.

$$75A = 30 + 42 + 70$$

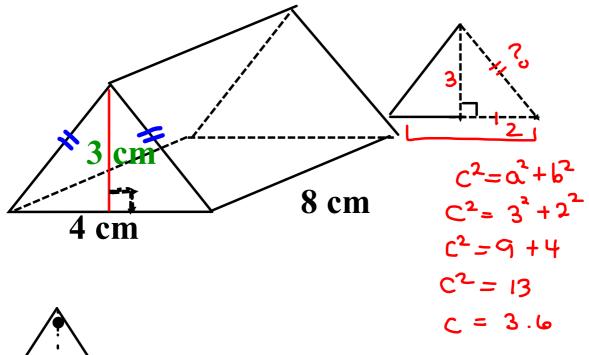
$$= 142 cm^{2}$$

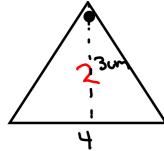
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Determine the surfaces area of each shape?



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$$A = b \times h$$

$$A = \frac{4 \times 3}{2}$$

$$2A = 57.6 \text{ cm}^2$$

$$T_{SA} = 12 + 32 + 57.6$$

= 101.6 cm²

Check

1. Calculate the surface area of each object

