

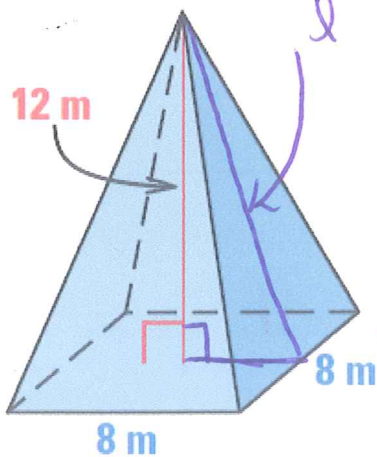
Name: Key Hour: \_\_\_\_\_

## Basic Surface Area and Volume of Pyramids

### Homework

Find the volume and surface area of the solid. Round to the nearest tenth.

1.



Find  $l$

$$12^2 + 4^2 = l^2$$

$$l = 12.6 \text{ m}$$

$$SA = \underline{265.6 \text{ m}^2}$$

$$V = \underline{256 \text{ m}^3}$$

$$V = \frac{1}{3} B \cdot H$$

$$V = \frac{1}{3} 8 \times 8 \times 12$$

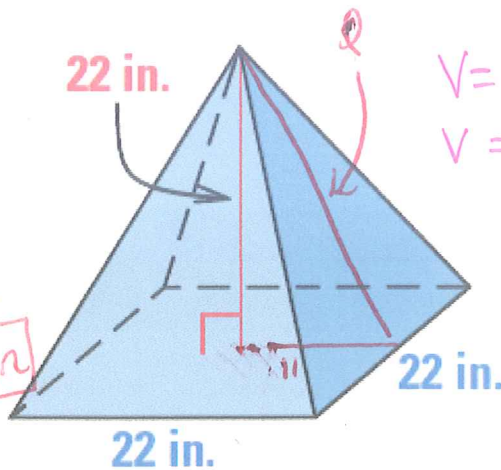
$$V = 256$$

$$SA = 8 \times 8$$

$$+ 4 \frac{1}{2} 8 \times 12.6$$

$$\underline{SA = 265.6 \text{ m}^2}$$

2.



$$22^2 + 11^2 = l^2$$

$$l = 24.6 \text{ in.}$$

$$V = \frac{1}{3} (22 \times 22) \times 22$$

$$V = 3549.3 \text{ in}^3$$

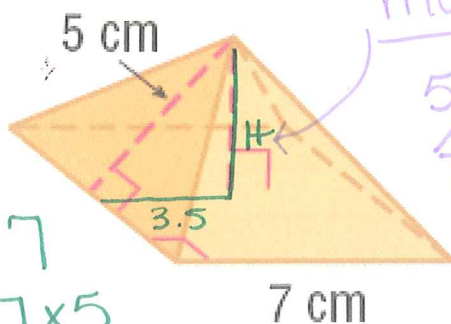
$$V = \underline{3549.3 \text{ in}^3}$$

$$SA = 22 \times 22$$

$$+ 4 \frac{1}{2} 22 \times 24.6$$

$$\underline{SA = 1566.4 \text{ in}^2}$$

3.



must find  $H$  1st

$$5^2 = H^2 + 3.5^2$$

$$H = 3.6 \text{ cm}$$

$$SA = \underline{119 \text{ cm}^2}$$

$$V = \underline{58.8 \text{ cm}^3}$$

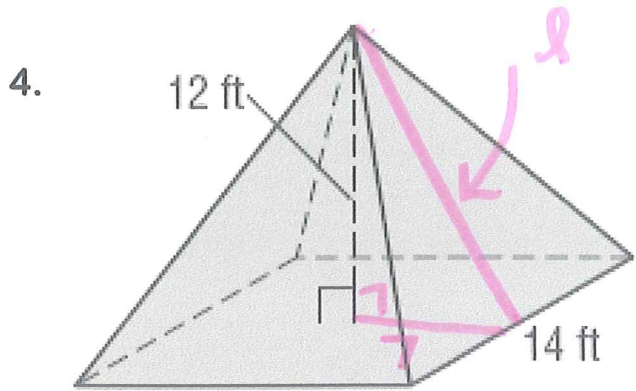
$$SA = 7 \times 7$$

$$+ 4 \frac{1}{2} 7 \times 5$$

$$\underline{SA = 119 \text{ cm}^2}$$

$$V = \frac{1}{3} B \cdot H$$

$$V = \frac{1}{3} (7 \times 7) 3.6$$



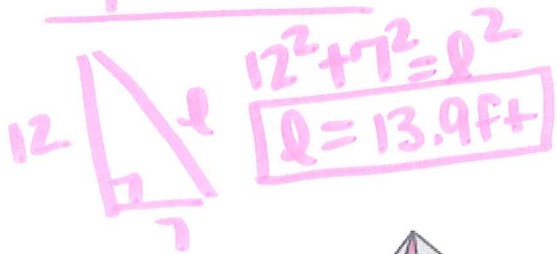
$$SA = \underline{585.2 \text{ ft}^2}$$

$$V = \underline{784 \text{ ft}^3}$$

$$V = \frac{1}{3} (14 \times 14) 12$$

$$V = 784 \text{ ft}^3$$

Find  $l$

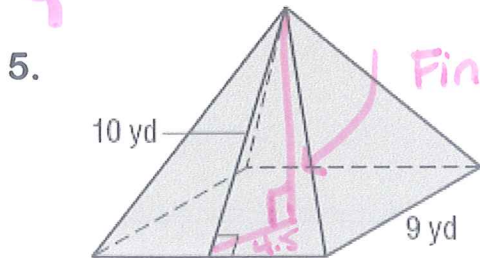


$$SA = 14 \times 14$$

$$+ 4 \frac{1}{2} 14 \times 13.9$$

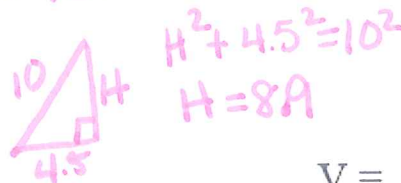

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$$585.2 \text{ ft}^2$$



Find  $H$  1st

$$SA = \underline{261 \text{ yd}^2}$$



$$V = \underline{240.3 \text{ yd}^3}$$

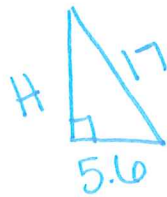
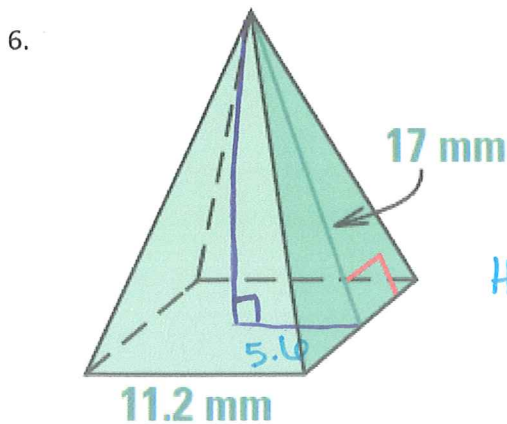
$$SA = 9 \times 9$$

$$+ 4 \frac{1}{2} 9 \times 10$$


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$$SA = 261 \text{ yd}^2$$

$$V = \frac{1}{3} (9 \times 9) 8.9$$



$$SA = \underline{506.2 \text{ mm}^2}$$

$$V = \underline{673.2 \text{ mm}^3}$$

$$SA = 11.2 \times 11.2$$

$$+ 4 \frac{1}{2} 11.2 \times 17$$


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$$506.2 \text{ mm}^2$$

$$V = \frac{1}{3} (11.2 \times 11.2) 16.1$$

$$V = 673.2 \text{ mm}^3$$