

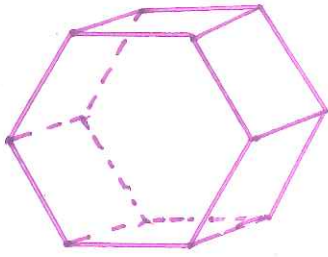
# Unit 10 Practice Test: 3-D Geometry

Name: Key

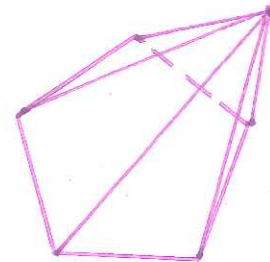
## 7<sup>th</sup> Grade Acc. Math

For 1 & 2, draw the following 3-D shapes. Use a geometer.

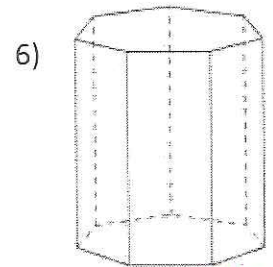
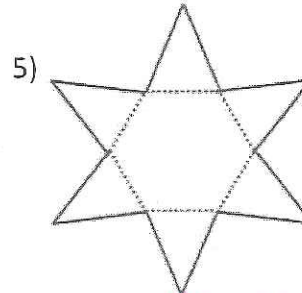
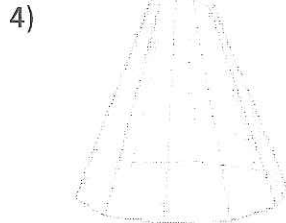
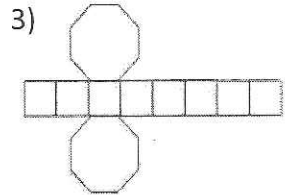
1) Hexagonal prism



2) Pentagonal pyramid



For 3-6, identify the following figures.



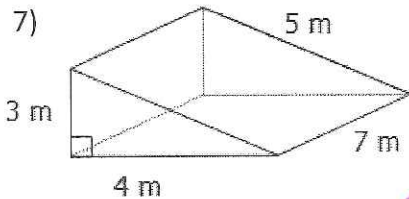
#3 answer: octagonal Prism

#4 answer: Decagonal Pyramid

#5 answer: Hexagonal Pyramid

#6 answer: Heptagonal Prism

For 7-14, evaluate the surface area and volume of the following shapes. Show your work and use units!!



$$S.A. = 12m \cdot 7m + 2\left(\frac{1}{2} \cdot 3m \cdot 4m\right)$$

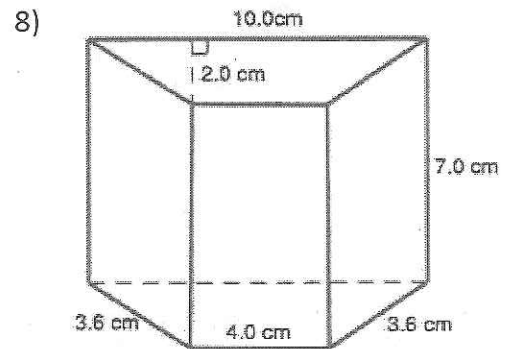
$$S.A. = 84m^2 + 12m^2$$


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$$V = \frac{1}{2} \cdot 3m \cdot 4m \cdot 7m$$

#7 S.A. answer: 96 m<sup>2</sup>

#7 Vol. answer: 42 m<sup>3</sup>



$$S.A. = 21.2cm \cdot 7cm + 2\left(\frac{1}{2} \cdot 4cm \cdot 2cm\right)$$

$$S.A. = 148.4cm^2 + 28cm^2$$


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$$V = \frac{1}{2} \cdot 4cm \cdot 2cm \cdot 7cm$$

#8 S.A. answer: 176.4 cm<sup>2</sup>

#8 Vol. answer: 98 cm<sup>3</sup>