

NAME _____ DATE _____ PER. _____

SURFACE AREA & VOLUME OF PRISMS

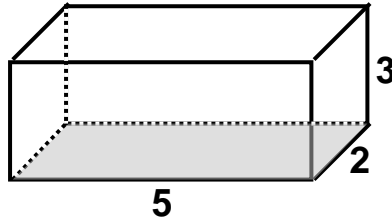
For each of the prisms below: a) name it; b) find its Lateral Area, c) find its Total Area, and d) find its Volume. Work must be shown to receive credit!

1. Name:

a) LA = _____

b) TA = _____

c) V = _____

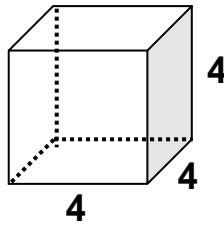


2. Name:

a) LA = _____

b) TA = _____

c) V = _____

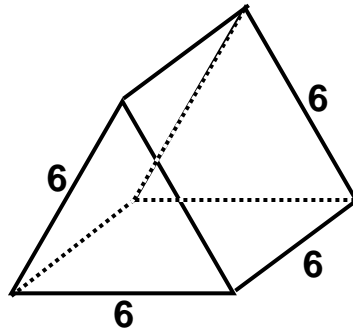


3. Name:

a) LA = _____

b) TA = _____

c) V = _____



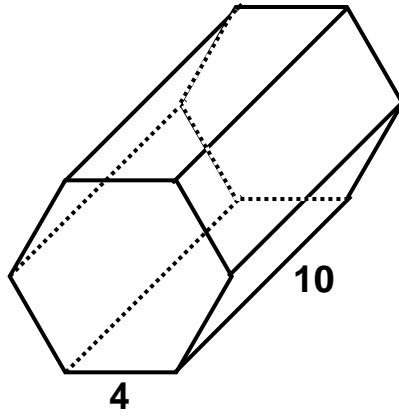
4. Name:

a) LA = _____

b) TA = _____

c) V = _____

****The base is a regular hexagon.***

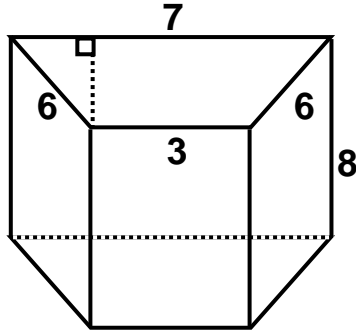


5. Name:

a) LA = _____

b) TA = _____

c) V = _____

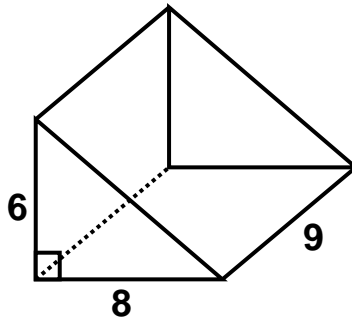


6. Name:

a) LA = _____

b) TA = _____

c) V = _____



REVIEW PROBLEMS**Answer each problem as indicated.**

7. _____	<p>Two flat walls meet in the corner of a classroom. Which postulate best describes this situation?</p> <p>A. Through any three non-collinear points there is exactly one plane.</p> <p>B. If two points lie in a plane, then the line containing them lies in the plane.</p> <p>C. If two lines intersect, then they intersect in exactly one point.</p> <p>D. If two planes intersect, then they intersect in exactly one line.</p>
8. _____	<p>A, B, C, D and E are collinear points. B is between A and C, C is between B and D, and D is between C and E. $AE = 34$, $BD = 16$, and $AB = BC = CD$. What is the length of CE?</p> <p>F. 10</p> <p>G. 16</p> <p>H. 18</p> <p>J. 24</p>
9. _____	<p>If an angle is bisected and then 30° is added to the measure of the bisected angle, the result is the measure of a right angle. What is the measure of the original angle?</p> <p>A. 30°</p> <p>B. 60°</p> <p>C. 75°</p> <p>D. 120°</p>
10. _____	<p>Mandy made a circular tabletop that has an area of 452 in^2. Which is closest to the radius of the tabletop?</p> <p>F. 9 in.</p> <p>G. 12 in.</p> <p>H. 24 in.</p> <p>J. 72 in.</p>
11. _____	<p>Write the equation of the line passing through $(3, 2)$ and $(-1, 6)$.</p>

