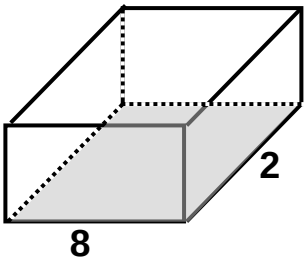
NAME_____**DATE**_____**PER.**____

MORE PRISMS & CYLINDERS

Answer each problem as indicated.

1. h = _____ LA = _____ TA = _____	The rectangular prism below has a volume of 64 cubic units. Find its height, Lateral Area, and Total Area. 
2. LA = _____ TA = _____ V = _____	The base of a rectangular prism has a length of 3 units and a width of 2 units. The height is 5 units. Find the lateral area, total area, and volume of the prism.
3. LA = _____ TA = _____ V = _____	The base of a triangular prism is an equilateral triangle with a side length of 14 cm. The height is 6 cm. Find the lateral area, total area, and volume of the prism.
4. LA = _____ TA = _____ V = _____	The base of a regular hexagonal prism has a side length of 6 in. The height of the prism is 12 in. Find the lateral area, total area, and volume of the prism.
5. LA = _____ TA = _____ V = _____	A cylinder has a diameter of 12 centimeters and a height of 4 centimeters. Find the lateral area, total area, and volume of the cylinder.

6. d = _____	A cylinder has a volume of 281.25π m^2. If the height is 5 m, what is the length of the diameter?
7. r = _____ TA = _____ V = _____	A cylinder has a lateral surface area of 96π cm^2. If the height is 12 cm, find the radius, total area, and volume.
8. _____	You have 4500 cubic centimeters of wax. How many cylindrical candles can you make from the wax if each candle is 15 centimeters tall and has a diameter of 10 centimeters?

Review

9. _____	$\overline{JK}$ has endpoints J(1, 3) and K(3, 5). The intersection of $\overline{JK}$ and its perpendicular bisector is (2, 4). What is the equation for the perpendicular bisector of $\overline{JK}$?
10. _____	What are the measures of the two acute angles of a right triangle if they measure (8x)° and (12x)°?