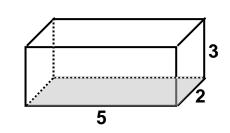
SURFACE AREA & VOLUME OF PRISMS

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:

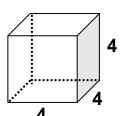
- a) LA = _____
- b) TA = _____
- c) V = _____



2. Name:

a) LA = _____

- b) TA = _____
- c) V = _____

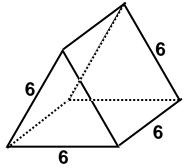


3. Name:

a) LA = _____

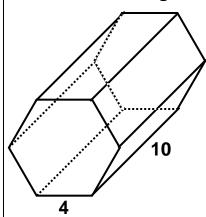
b) TA = _____

c) V = _____



4. Name:

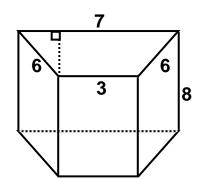
*The base is a regular hexagon.



5. Name:

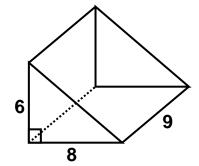
a) LA = _____

b) TA = _____



6. Name:

a) LA = _____



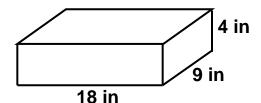
REVIEW PROBLEMS

Answer each problem as indicated.

11101101 0a011	problem de mareatear
7	Two flat walls meet in the corner of a classroom. Which postulate
7	best describes this situation?
	A. Through any three non-collinear points there is exactly one
	plane.
	B. If two points lie in a plane, then the line containing them lies in
	the plane.
	C. If two lines intersect, then they intersect in exactly one point.
	D. If two planes intersect, then they intersect in exactly one line. A, B, C, D and E are collinear points. B is between A and C, C is
8	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?
	F. 10
	G. 16
	H. 18
	J. 24 If an angle is bisected and then 30° is added to the measure of the
9	bisected angle, the result is the measure of a right angle. What is
	the measure of the original angle?
	A. 30°
	B. 60°
	C. 75°
	D. 120°
	Mandy made a circular tabletop that has an area of 452 in ² . Which
10	is closest to the radius of the tabletop?
	F. 9 in.
	G. 12 in.
	H. 24 in.
	J. 72 in.
4.4	Write the equation of the line passing through (3, 2) and (-1, 6).
11	
	1

Find the correct answer for each of the following. Clearly circle or bubble in your answers as necessary. Work must be shown in order to receive credit!

12. Taylor is wrapping a birthday gift in the rectangular box shown below. She wants to cut just one rectangular piece of wrapping paper to cover the box.



What is the area of the smallest piece of paper that Taylor can use to wrap the gift?

Record your answer and fill in the bubbles on the grid below. Be sure to use the correct place value.

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13. The area of the base of a prism is 6x square inches, and the height of the prism is 3.5x inches. If the prism has a volume of 3,024 cubic inches, what is the value of 'x'?

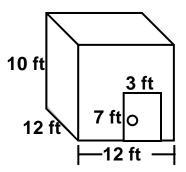
A.
$$x = 8.5$$

B.
$$x = 15$$

C.
$$x = 10.5$$

D.
$$x = 12$$

14. Frank wants to paint his room in the school colors of maroon and white. The floor and ceiling will be white, and all the walls will be maroon. The door will also be white.



If one gallon of paint covers 400 sq ft, how many gallons of each color will he need?

- A. 1 gallon white, 1 gallon maroon
- B. 1 gallon white, 2 gallons maroon
- C. 2 gallons white, 2 gallons maroon
- D. 2 gallons white, 3 gallons maroon
- 15. A cube has a side of 7 cm. Find the number of square centimeters in the total surface area.

Record your answer and fill in the bubbles on the grid below.

\oplus \bigcirc	0999999999	09-09-09-06-80	00000000000000	0000000000000	0000000000000	$\bullet \otimes \neg \otimes \neg \otimes \neg \otimes \circ \otimes \circ \otimes \circ$	\bigcirc