AMA
LEARNING

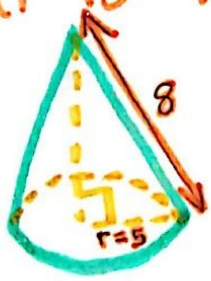
Area and Volume of Solids: Practice Activity

1. A rectangular prism has a length of 5 and a height of 4. If the volume is 120, what is the width?

2. The top and bottom congruent faces are called _____.

3. The diameter of a sphere is 12, what is the surface area?

4. What is the lateral area of this cone?



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Area and Volume of Solids: Answers

1. 6
2. Bases
3. $A \approx 452.39$
4. L.A. $\approx$ 125.66

Congruency & similarity: Answers

1. a. congruent figures
   b. Triangle sum Theorem
   c. Exterior angles Theorem
2. NO!
   d. congruence statements
3. Converse of the Base Angles theorem
4. 5. order
6. AAA SSA

4. S	R
1. $HK \perp JL$	1. Given
2. $\angle HKJ$ and $\angle HKL$ are right angles	2. Def. of perpendicular
3. $\overline{HJ} \cong \overline{HL}$	3. Given
4. $\overline{HK} \cong \overline{HK}$	4. reflexive prop.
5. $\triangle HKJ \cong \triangle HKL$	5. HL

7. S	R
1. $DF \parallel EB$	1. Given
2. $\angle FDC \cong \angle BEX$	2. Corresponding Angles
3. $CF \parallel XB$	3. Given
4. $\angle FCD \cong BXE$	4. Corresponding Angles
5. $\overline{DC} \cong \overline{EX}$	5. Given
6. $\triangle DCF \cong \triangle EXB$	6. ASA