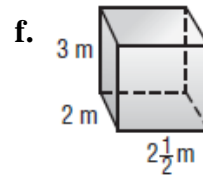
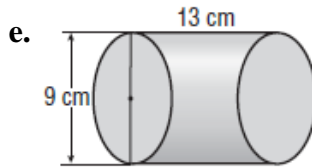
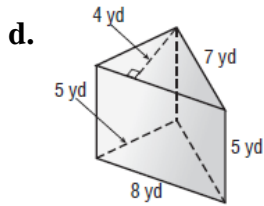
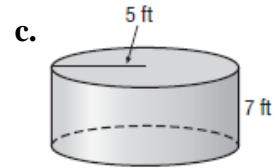
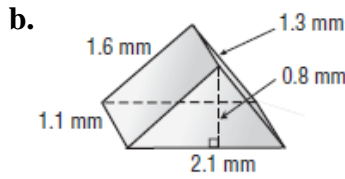
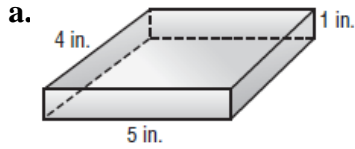


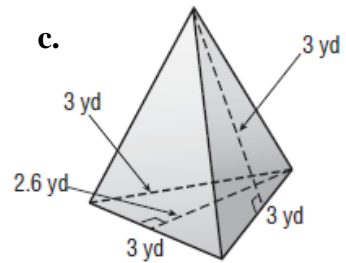
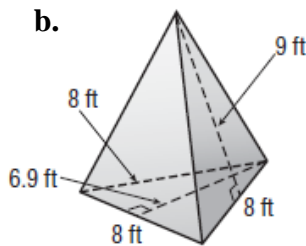
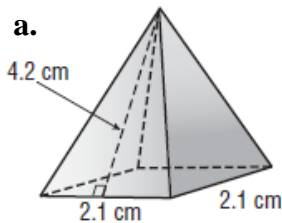
**7-7&8 Skills Practice: Surface Area Prisms, Cylinders & Pyramids** **Math8**

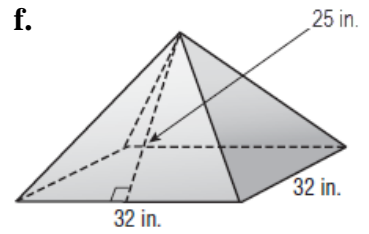
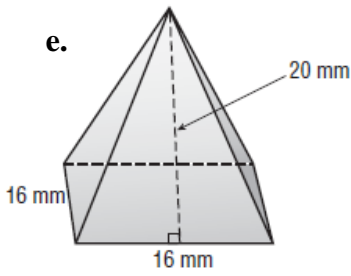
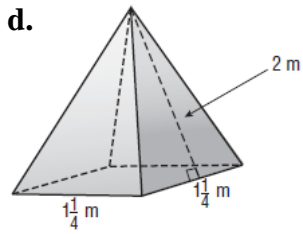
Show work for all problems!

1. Find the lateral and total surface areas of each solid. Use 3.14 for  $\pi$ . Round to the nearest tenth if necessary.



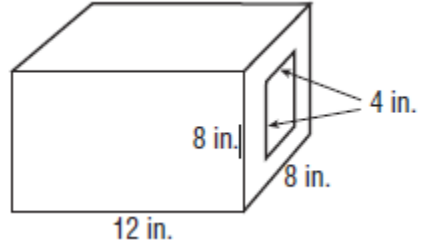
2. Find the lateral and total surface areas of each regular pyramid. Round to the nearest tenth if necessary.





3. A rectangular prism has height 4 millimeters and width 5 millimeters. If the total surface area is 166 square millimeters, what is the length of the prism?

4. Find the total surface area of the hollow concrete casing shown, including the interior.



5. A mirrored cylinder used in a light show is shown below. Only the curved side of the cylinder is covered with mirrors. Find the area of the cylinder covered in mirrors. Round to the nearest tenth.

6. A square pyramid has a lateral surface area of 20 square yards. If the slant height is 2 yards, what is the total surface area of the pyramid?

7. When the Great Pyramid was built, the slant height was about 610 feet and the length of the base was about 750 feet. Find the approximate lateral surface area of the Great Pyramid when it was built.