Name Date Period

**Prisms, Cylinders, Cones and Pyramids Worksheet**

**In exercises 1 – 3, find the area of a base of the prism or cylinder.**

**1) Right rectangular prism 2) Oblique rectangular prism 3) Right circular cylinder**



**In exercises 4 – 7, find the lateral area of the regular pyramid or right cone. Round your result to the thousandths place.**



**4) 5) 6) 7)**

**In exercises 8 – 11, find the surface area of the right prism or right cylinder. Round your answers to the thousandths place.**



**8) 9) 10) 11)**

**In exercises 12 – 14, find the surface area of the solid. Remember to include the area of both lateral surfaces. Round your results to the thousandths place.**



**12) 13) 14)**

**In exercises 15 – 17, find the surface area of the rectangular oblique prism. Explain your reasoning.**



**15) 16) 17)**

**18) The cardboard tube in a roll of paper towels has a diameter of 1.7 inches and a height of 11 inches.**

 **If the tube were cut and unfolded to form a rectangle, what would the rectangle’s area be?**

**In exercises 19 – 22, find the surfacee area of the solid. The pyramids are regular, and the prisms, cvylinders, and cones are right. Round your result to the thousdandths place.**



**19) 20) 21) 22)**

**In exercises 23 – 26, each regular pyramid is inscribed in a right cone whose radius is 1 unit and whose slant height is** $\sqrt{2}$ **units. Match the pyramid with its surface area *without* actually calculating the surface area. Explain your reasoning.**

**a) 7.32 square units b) 5.46 square units c) 6.56 square units d) 7.00 square units**

 **23) Square 24) Hexagon 25) Octagon 26) 12 - gon**

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**In exercises 27 – 30, draw the pyramid or cone that can be folded from the net. Then find its surface area.**



**27) 28)**



**29) 30)**