

# Assignment

## LESSON 2: That's a Spicy Pizza!

### Write

Explain in your own words how to derive the formula for the area of a circle.

### Remember

A formula for the area of a circle is  $A = \pi r^2$ .

### Practice

Determine the area of the circle, given each measurement. Use 3.14 for  $\pi$  and round to the nearest hundredth.

1. Diameter: 8 in.
2. Radius: 10 in.
3. Radius: 1.5 ft
4. Diameter: 8.8 yd
5. Diameter:  $1\frac{3}{4}$  in.
6. Radius:  $2\frac{1}{2}$  cm

Determine which pizza is the better buy in each situation.

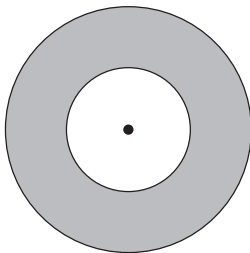
7. The 10-inch diameter pizza for \$8.99 or the 6-inch diameter pizza for \$5.
8. The large 16-inch diameter pizza for \$12.99 or the \$26 X-large with a radius of 16 in.
9. The 12-inch diameter pizza for \$12.50 or the 20-inch diameter pizza for \$17.50.
10. The 4-inch radius pizza for \$3 or the 8-inch radius pizza for \$14.
11. Two 12-inch diameter pizzas for \$12.98 or one large 14-inch diameter pizza for \$7.99.
12. The 1-inch diameter pizza bite for \$1 or the 10-inch diameter pizza for \$10.

Visit [livehint.com/texas](http://livehint.com/texas) or use this QR code if you need a hint on the Practice questions.



### Stretch

The radius of the small circle is 0.5 millimeter. The area of the large circle is 28.26 square millimeters. Calculate the area of the shaded region.



## Review

Determine the circumference of each circle, given its radius or diameter. Use 3.14 for  $\pi$  and round to the nearest tenth.

1. Radius: 4.5 cm
2. Diameter: 12 ft

Determine each unit rate. Round your answer to the nearest thousandth if necessary.

3. 75 square feet of tile for \$126
4. 420 miles in 6.5 hours

Compare the fractions in each pair using the symbol  $>$ ,  $<$ , or  $=$ .

5.  $\frac{3}{5}$ ,  $\frac{2}{3}$

6.  $\frac{6}{7}$ ,  $\frac{8}{9}$