

6-9

Practice: Word Problems

Geometry: Circles and Circumference

4 points each: picture, formula, work, answer

1. **PLATES** A manufacturing company is producing dinner plates with a diameter of 12 inches. They plan to put a gold edge on each plate. Determine how much gold edging they need for each plate by finding the circumference of each plate. Round to the nearest tenth.

Draw a picture:

2. **MONEY** A dime has a radius of $8\frac{1}{2}$ millimeters. Find the circumference of a dime to the nearest tenth.

Draw a picture:

Formula:

Work:

Answer:

Formula:

Work:

Answer:

3. **MERRY-GO-ROUND** Mr. Osterhout is putting trim around the edge of a circular merry-go-round that has a diameter of 15 feet. How much trim does he need to buy to the nearest tenth?

Draw a picture:

4. **PIZZA** Find the circumference of a pizza with a diameter of 10 inches. Round to the nearest tenth.

Draw a picture:

Formula:

Work:

Answer:

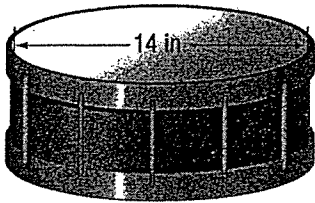
Formula:

Work:

Answer:

1. **POOLS** Susan designed a circular pool with a diameter of 25 meters. What is the area of the bottom of the pool? Round to the nearest tenth.

3. **DRUMS** What is the area of the drumhead on the drum shown below? Round to the nearest tenth.



5. **GARDENING** Jane needs to buy mulch for the garden with the dimensions shown in the figure. For how much area does Jane need to buy mulch? Round to the nearest tenth.

