

Math Word Problems Warm-ups: Circumference and Area of Circles

Name/Date _____

Circumference and Area of Circles 1

- A. Trevor needs a new bicycle tire. His tire has a circumference of about 113.04 inches. What is the diameter of his tire?

- B. Gene's frying pan is 13.5 inches in diameter. What is the circumference of his frying pan? _____

Name/Date _____

Circumference and Area of Circles 2

A farmer has three silos. The largest silo has a diameter of 24 feet. The radius of the smallest silo is one-third as big as the diameter of the largest. The middle-sized silo has a radius that is 2 feet greater than the radius of the smallest silo. What is the circumference of each silo? _____

Name/Date _____

Circumference and Area of Circles 3

- A. Brad is putting an 8-foot diameter circular flower garden in his yard. He will put plastic edging along the flowerbed. How many feet of edging will Brad need to enclose his flower garden?

- B. How many square feet of land are in Brad's garden?

Name/Date _____

Circumference and Area of Circles 4

- A. Kelsey bought a circular rug that is 8 feet in diameter. The rug has a blue border and a red circular center that is 6 feet in diameter. What is the area of the blue border? _____
- B. Macy measures a truck's tire mark for one complete revolution as 100.48 inches long. What is the diameter of the tire?

Name/Date _____

Circumference and Area of Circles 5

- A. Anna is covering the circular pool with a heavy-duty cover for the winter. The pool has a diameter of 24 feet. The cover extends 12 inches beyond the edge of the pool, and a rope runs along the edge of the cover to secure the cover in place. What is the area of the cover? _____
What is the length of the rope? _____
- B. How many square inches greater is the area of a 30-inch circular mirror than an 18-inch circular mirror?

