Note: Use 3 for .

1. Mando is a craftsman who is currently designing bracelets from silver strips of metal. If Mando is currently working on a strip of metal that is 22 cm long, then what will be the approximate diameter of the bracelet be? (Prove it.)

A 66 cm

B 363 cm

C 11 cm

D 7 cm

E 132 cm

1. Rob and Joe got a summer job at the Flying Frisbee Co., Inc. The boys make the Frisbees by pouring hot wax into circular molds and letting them cool. If the metal strip used to form each mold is 18 inches long, find the approximate diameter of a Frisbee. (Prove it.)

A 9 in.

B 6 in.

C 54 in.

D 3 in.

E 972 in.

1. What is the area of one Frisbee described in the previous problem?

A 18 in.2

B 108 in.2

C 972 in.2

D 243 in.2

E 27 in.2

1. Zoe has a circular rug with a diameter of 14 feet. How much space on the floor does the rug cover?

A 588 ft2

B 42 ft2

C 147 ft2

D 484 ft2

E 108 ft2

1. A bicycle tire travels 84 inches in one revolution. What is the approximate diameter of the tire?

A 42 in.

B 252 in.

C 28 in.

D 14 in.

E 168 in.

1. Ms. Michalk has a circular freckle on her hand that has a radius of 4 mm. What is the freckle’s area?

A 12 mm2

B 192 mm2

C 144 mm2

D 48 mm2

E 156 mm2

1. The bull’s eye on Leo’s dart board has a radius of 9 inches. How much space does the bull’s eye cover?

A 729 in.2

B 81 in.2

C 243 in.2

D 54 in.2

E 974 in.2

1. MCj03330680000[1]The diameter of a large pizza at Pizza Parlor is 16 inches. What is the area of its crust?

A 768 in.2

B 48 in.2

C 576 in.2

D 192 in.2

E 64 in.2

1. Mrs. Espinosa was painting a stripe on her wall with a paint roller. The stripe was 6 inches long and represented 1 complete revolutions of the paint roller. What is the approximate diameter of the roller? (Prove it.)

A 6 in.

B 3 in.

C 54 in.

D 2 in.

E 18 in.

1. What is the area of the base of this birthday cake?



6 in.

A 108 in.2

B 324 in.2

C 432 in.2

D 324 in.2

E 36 in.2

1. Mrs. Kirchoff brought a wheel off of a toy truck to school. She rolled it in ink, and then rolled it across a large sheet of paper. If the diameter of the wheel was 5 cm, then approximately how long was the “ink stripe” made by the wheel if Mrs. Kirchoff rolled it 1 complete revolution? (Prove it.)

A 35 cm

B 15 cm

C 70 cm

D 175 cm

E 56 cm

1. The circumference of this circular trampoline is 30 ft. What is its approximate area?

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A 10 ft2

B 300 ft2

C 75 ft2

D 225 ft2

E 90 ft2

1. Mando (the craftsman in problem #1) has a strip of metal that is 100 cm long; he is going to use this strip of metal to make 4 bracelets of equal size. What is the approximate diameter of one bracelet? (Prove it.)

A 25 cm

B 8 cm

C 12 cm

D 400 cm

E 75 cm

Pre-AP/GT:

1. Mrs. Cavazos has a bicycle tire with a diameter of 24 inches. Approximately how many FEET will the tire roll in 5 complete revolutions? (Prove it.)

A 2 ft

B 6 ft

C 10 ft

D 20 ft

E 30 ft

1. Lucy’s tricycle wheel travels about 220 inches in FOUR full rotations. What is the approximate diameter of the wheel of Lucy’s tricycle?

(Prove it.)

A 9 in.

B 36 in.

C 18 in.

D 336 in.

1. Crime Scene Investigators measured the length of a skid mark; it was 24 feet long. This skid mark equaled 4 complete revolutions of a tire. What was the approximate diameter of the tire? (Prove it.)

A 6 ft

B 3 ft

C 2 ft

D 96 ft

1. A tractor tire is shown below.



72 in.

Clayton was plowing up stalks when he heard the tractor engine pop loudly; he immediately slammed on the brakes. The momentum of the tractor caused the back tires to continue for 5 full turns.

Approximately what distance did the tractor travel in feet during these 5 full rotations? (Prove it.)

A 216 ft

B 1,080 ft

C 18 ft

D 90 ft