

Why Is a Mathematician Like an Airline?

Round each answer to the nearest hundredth (if necessary) and find it in the appropriate answer column. Use 3.14 for π . Fill in the correct unit of measure for each answer you choose. Write the letter of the exercise in the box containing the number of the answer.

1. A circle has a radius of 12 in. Find:

- (E) The diameter of the circle.
 (H) The circumference of the circle.
 (T) The area of the circle.

2. A circle has a radius of 4.4 cm. Find:

- (S) The diameter of the circle.
 (Y) The circumference of the circle.
 (H) The area of the circle.

3. A circle has a diameter of 60 m. Find:

- (I) The radius of the circle.
 (O) The circumference of the circle.
 (T) The area of the circle.

4. A circle has a diameter of 1.8 km. Find:

- (O) The radius of the circle.
 (E) The circumference of the circle.
 (U) The area of the circle.

5. Solve.

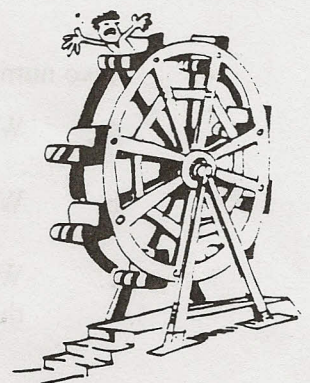
- (B) Jack's cow is tied to a beanstalk with a piece of rope that is 15 ft long. What is the area of the circle in which the cow can graze?
- (T) A round game table has a diameter of 1 m. How much plastic laminate is needed to cover the top of this table?
- (S) The diameter of the earth at the equator is about 8,000 mi. Based on this figure, how far is it around the earth?
- (P) Radio station KROQ broadcasts in all directions to a distance of 40 mi. How many square miles are in the station's broadcast area?
- (L) **WORLD RECORD:** The world's largest Ferris Wheel was built in London in 1897. The wheel had a radius of 150 ft. How far would you travel in one turn of this wheel?

Answers 1 - 3:

- (4) 27.63
 (14) 61.43
 (16) 30
 (2) 75.36
 (12) 461.36
 (21) 8.8
 (17) 172.4
 (13) 24
 (9) 60.79
 (1) 2,826
 (8) 452.16
 (5) 25.51
 (7) 188.4
 (10) 2,516

Answers 4 - 5:

- (15) 898
 (6) 706.5
 (13) 5,174
 (5) 24,930
 (11) 2.54
 (20) 0.79
 (19) 0.9
 (18) 942
 (10) 690.5
 (14) 2.91
 (15) 5,024
 (3) 5.65
 (17) 0.87
 (12) 25,120



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
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