

# 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  $\pi$ . 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.

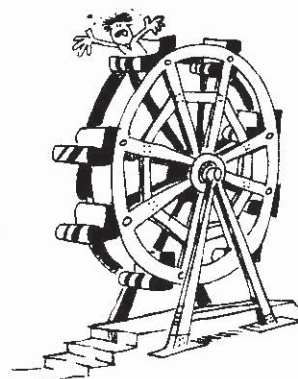
1. A circle has a radius of 12 in. Find:
  - (E) The diameter of the circle.
  - (H) The circumference of the circle.
  - (T) The area of the circle.
2. A circle has a radius of 4.4 cm. Find:
  - (S) The diameter of the circle.
  - (Y) The circumference of the circle.
  - (H) The area of the circle.
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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