

Quiz 5

Part A: [2] True/False. Circle T if the statement is *always* true, otherwise circle F. No partial credit is given.

T F The perimeter of a circle is called the circumference.

T F The perimeter of a circle with radius r is πr^2 .

T F There are 100 meters in 1 centimeter.

T F The distance between any two points is greater than or equal to 0.

Part B: Show *all* your work on the following. A right answer with no supporting work will receive no credit.

1. [3] A cheetah is clocked at 60 miles per hour (mph), what is its speed in feet per second? (Note: there are 5280 feet in 1 mile.)

2. On a circular merry-go-round, a brown horse is 3 meters from the center and a black horse is 6 meters from the center. The merry-go round makes 2 revolutions per minute.

(a) [1] Describe the path that the brown horse travels in one minute.

(b) [2] How many meters does the brown horse travel in a minute?

(c) [2] Are the horses both traveling at the the same speed?