Name Our Date Hour

Geometric Probability Quiz Review

Round to the nearest hundredth and use 3.14 for Pi.

- 1. a. Find the area of the circle. $3/4(3)^2 = 28.26(m^2)^2$
 - b. Find the area of the square. 36cm2
 - Find the probability that a dart thrown randomly will hit the circle.

In the following diagram MATH is a rectangle with an inscribed circle. The circle
has a diameter of 8 centimeters and the rectangle has a height of 12 centimeters
(as shown).

Find the probability that a dart thrown randomly will hit the circle.

$$3.14(4)^2 = 16(3.14) = 50.24$$
 $8(12) - 96$
 96
 52.96
H

3. In the following diagram, right triangle ABC is inscribed in a circle. It is given that AC = 26, BC = 24, AB = 10 and AC is the diameter of the circle.

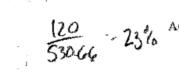
Find the probability that a dart thrown randomly will hit the triangle. Give your answer as a fraction, decimal and percent.

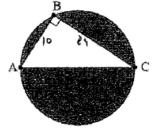


10(24) - 1500 114



3.14(13)= = 530.66





Use the picture at the right for Questions 4 - 7.



- 4. A rectangular field measures 27 feet by 15 feet. Find the area of the field. $A=27(15)=405ft^2$
- 5. A small shed is on the field. Its dimensions are 8 feet by 10 feet. What is its area?

$$A = 8(10) = 80 \text{ft}^2$$

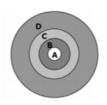
What is the probability that a single drop of rain that lands in the field would hit the shed? Give your answer as a fraction, decimal and percent.

 What is the probability that a single drop of rain that lands in the field would not hit the shed? Give your answer as a fraction, decimal and percent.

Use the dartboard at the right for Questions 8 - 11.

A dartboard is made up of concentric circles with the following radii:

Circle A: r = 2 inches Circle B: r = 4 inches Circle C: r = 6 inches Circle D: r = 10 inches



- 8. Find the area of circle A. A=12.56in²
- 9. Find the area of circle B that is not covered by circle A $A=37.68in^{2}$
- 10. Find the area circle C that is not covered by circle A or B. $A=62.8in^2$
- 11. Find the area of the dartboard that is *not* covered by circles *A*, *B*, or *C*.

 $A=200.96 \text{ in}^2$