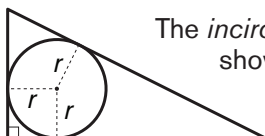




Warm-Up 7

91. _____ What is the value of $127^2 - 14 \times 127 + 49$?

92. _____ mm



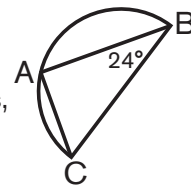
The *incircle* of a triangle is a circle tangent to all three sides of the triangle, as shown in this example. What is the radius of the incircle of a right triangle with side lengths of 12, 35 and 37 mm?

93. _____ integers How many positive integers less than 100 are a multiple of 3 but not a multiple of 5?

94. \$ _____ Alta wants to put carpet down in her bedroom, which measures 18 feet by 12 feet. If she uses a carpet that costs \$25 per square yard, how much will it cost to put carpet in her entire bedroom?

95. _____ If $\frac{1}{2} + \frac{1}{4} = \frac{1}{3} + \frac{1}{5} + \frac{1}{6} + \frac{1}{n}$, what is the value of n ?

96. _____ degrees Triangle ABC is inscribed in a semicircle as shown. If $m\angle ABC = 24$ degrees, what is the degree measure of $\angle BCA$?



97. _____ mi/h A spacecraft traveled 5.0×10^5 miles in 2.0×10^2 hours. What was its average speed in miles per hour? Express your answer in scientific notation to two significant figures.

98. _____ ounces Two-thirds of a 12-ounce bottle is filled with cola. How many ounces of cola remain after Montez drinks one-fourth of the cola in the bottle?

99. _____ dozen If there are 15 strawberries in a bundle and 8 bundles in a crate, how many dozen strawberries are in a crate?

100. _____ mi/h Twins Miley and Riley leave home at the same time, riding their bicycles in opposite directions. Miley goes northbound traveling 18 mi/h. After 1 hour, the twins are 32 miles apart. How fast was Riley traveling in the southbound direction?