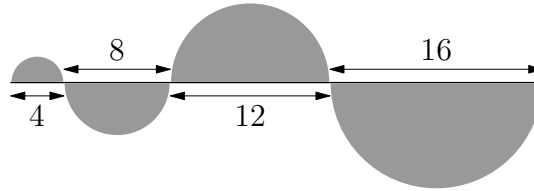


1. \_\_\_\_\_ Semicircles are formed on alternating sides of a 40 cm segment, as indicated below. In centimeters, what is the radius of a circle that has the same area as the shaded region? Express your answer as a decimal to the nearest tenth.



2. \_\_\_\_\_ Each time a sound wave bounces off a reflector it loses 20% of its strength. What percent of its original strength has it lost after three reflections? Express your answer as a decimal percent.