Basic Concept Questions

1m = \_\_\_\_ cm

1mm \_\_\_\_ cm

10 inches = \_\_\_ meters

23.8 feet = \_\_\_\_ meters

48.56 gallons = \_\_\_ kilograms

**Fill in the blanks with SI units**

1. A girl of height 160 centimeters weight 50\_\_\_?
2. The height of a building is 30\_\_\_?
3. The mass of a dandelion is 500\_\_\_?

**Short Answers**

1. A boy runs at a speed of 256.7 meters per minute. Calculate the amount of distance he travelled after 10.3 minutes in kilometers.

**Challenge Questions**

1. The volume of a sphere can be calculated by the formula $\frac{4}{3}πr^{3}$, where r is the radius of the sphere. The diameter of the sphere is 100cm, please calculated the volume of the sphere in cubic meter.
2. Water flows at a rate of 5m/s into the cylinder shown below. given that the diameter of the bottom circle is 50 cm. Please calculate the amount of volume in the cylinder after 10 seconds in cubic meter,
3. 