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A barrel shaped like a cylinder is laid on its side and rolled up a ramp that is 58 m long. The barrel has a circular base that is 0.5 m in diameter. How many times does the barrel turn in being rolled up the ramp?

Do not round any intermediate steps. Round your final answer to the nearest tenth. If necessary, refer to the [list of geometry formulas](#).

Find Circumference
 $C = 2\pi r$ or $C = \pi d$ (b/c $2r = d$)
 $C = \pi \cdot 0.5$
 $C = 1.570796$

$\frac{58}{1.570796} = 36.9$

A barrel shaped like a cylinder is laid on its side and rolled up a ramp that is 336 ft long. The barrel has a circular base that turns 48 times in being rolled up the ramp. What is the diameter of the circular base?

Do not round any intermediate steps. Round your final answer to the nearest tenth. If necessary, refer to the [list of geometry formulas](#).

I think they'll always be this formula
 $\text{times it rolls} = \frac{\text{distance}}{\text{diameter} \cdot \pi}$

on this one
 $\pi \cdot 48 = \frac{336}{d}$
 $48\pi = \frac{336}{d}$
 $d = \frac{336}{48\pi}$

City workers are using a snowplow to clear a street. A tire on the snowplow is 1.5 m in diameter and has to turn 25 times in traveling the length of the street. How long is the street?

Do not round any intermediate steps. Round your final answer to the nearest tenth. If necessary, refer to the [list of geometry formulas](#).

$\text{times rolled} = \frac{\text{distance}}{\pi d}$

$1.5\pi \cdot 25 = \frac{d}{1.5\pi}$
 $d = 1.5 \times 25 \times \pi$

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