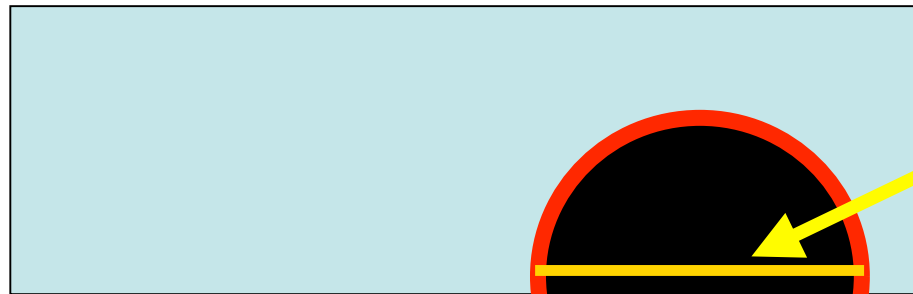


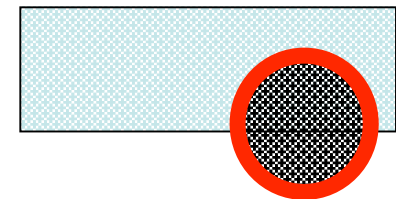
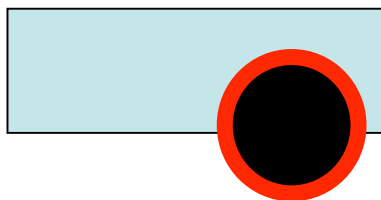
Simple Pi Challenge!



Pi = 3.14

Diameter = 5.6 cm

Circumference = Pi * Diameter



Distance Robot Travels in 1 Rotation = $3.14 * 5.6$ cm

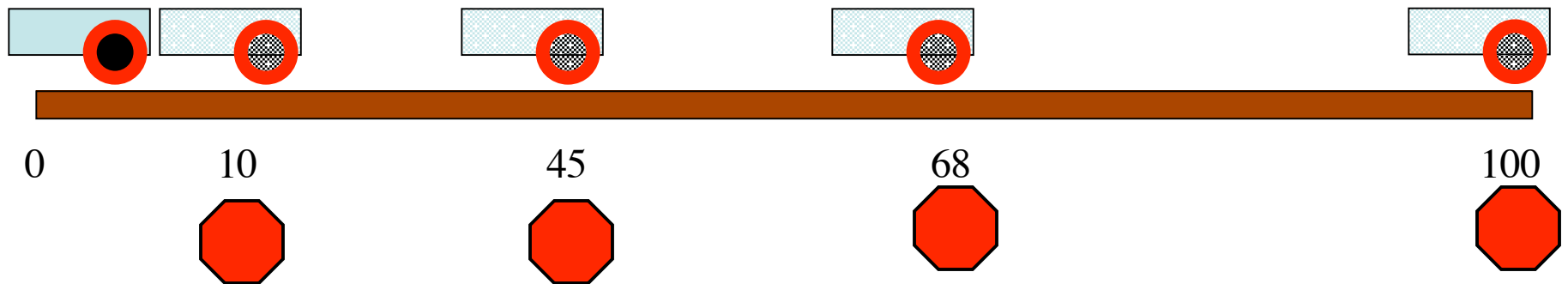
$$3.14 * 5.6 = 17.58 \text{ cm}$$

Simple Pi Challenge!

Write a simple movement block program that makes the robot stop at the following distances on the Meter Stick: (You get one try!)

- > 10 cm
- > 45 cm
- > 68 cm
- > 100 cm

(Hint: Use a Play Sound Block at Each stopping Point)



Process

Calculate Distance to point

Use following Formula:

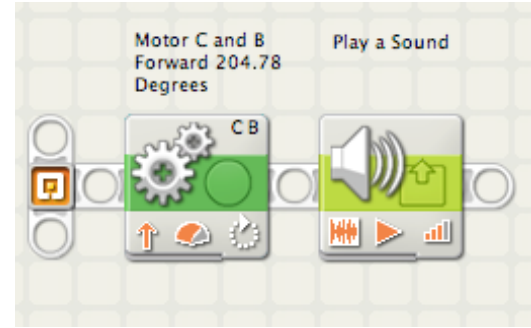
$$\text{Degrees} = 360 * \left(\frac{\text{Distance}}{\text{Circumference}} \right)$$

Worksheet

Distance 1 = 10 cm

Formula: _____ = $360 * (10 / 17.58)$
(Degrees)

Degrees = 204.78



Distance 2 = ___ cm

Formula: _____ = $360 * (_ / 17.58)$
(Degrees)

Degrees = _____

Distance 3 = ___ cm

Formula: _____ = $360 * (_ / 17.58)$
(Degrees)

Degrees = _____

Distance 4 = ___ cm

Formula: _____ = $360 * (_ / 17.58)$
(Degrees)

Degrees = _____