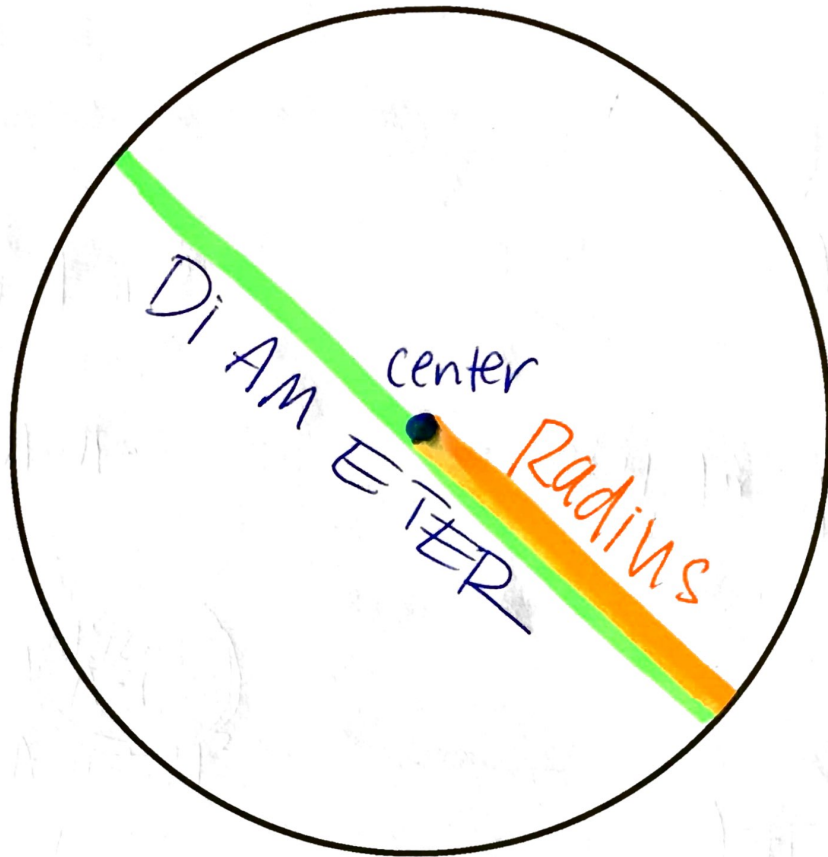


VOCABULARY

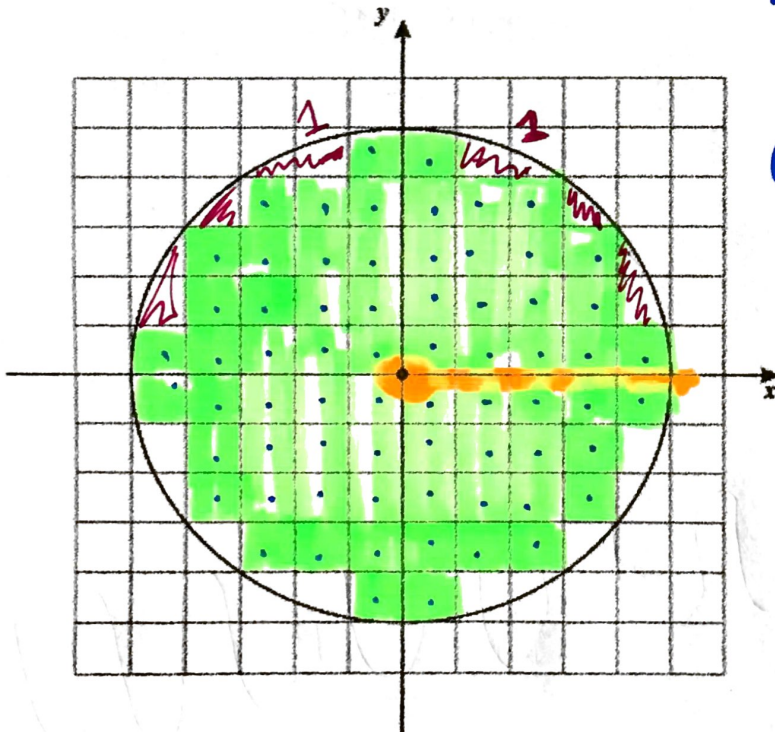


$$\text{Area} = \pi \cdot r^2$$

$$\pi \cdot r \cdot r$$

Find the area of the following circle:

$$\pi = 3.1415926 \dots$$



$$68 + 5 + 5 = 78$$

- 1
- 1
- 1
- 1
- 1
- 1

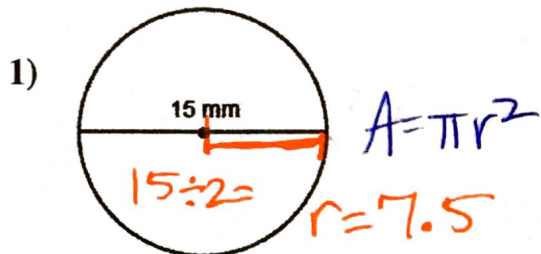
$$r = 5$$

$$A = \pi \cdot r^2$$

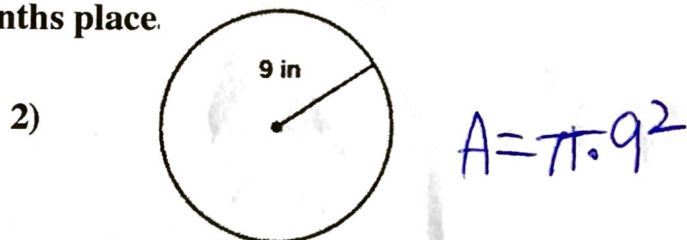
$$A = \pi \cdot (5)^2$$

$$\pi \cdot 25 = 78.5 \approx 79$$

Find the area of each circle. Round to the tenths place.



Area: 176.7 mm² $A = \pi \cdot 7.5^2$



Area: 254.4 in²

3) radius = 7.4 cm

$A = \pi \cdot r^2$
 $A = \pi \cdot 7.4^2$
 Area: 172.0 cm²

4) diameter = $\frac{11}{2}$ km $A = \pi (5.5)^2$

$r = 5.5$ km
 Area: 95.0 km²

5) diameter = 5.5 cm / 2
 $r = 2.75$

$A = \pi \cdot 2.75^2$
 Area: 23.7 cm²

6) radius = 6.1 m


$A = \pi \cdot 6.1^2$
 Area: 116.8 m²

Ex. 3 HALF CIRCLES:

7) Diameter = 5.5 cm

$\frac{5.5}{2} = 2.75$
 $A = \pi \cdot 2.75^2$
 Area: 11.85 cm²

8) Radius = 6.1 (m)

 $\frac{116.8}{2} = 58.4$
 Area: 58.4 m²

9) radius = 7.3 in

Area =

10) diameter = 12.5 ft

Area =