

## 12-2 Area of Circles

Formula:  $A = \pi r^2$

Round answers to nearest tenth.

$$7.\underline{8}9 \approx 7.9$$

$$31.\underline{9}8 \approx 32$$
$$32.\underline{0}$$



$$A = \pi r^2$$

$$A = 3.14 \times 4^2$$

$$A = 3.14 \times 16$$

$$A = 50.24 \text{ m}^2$$

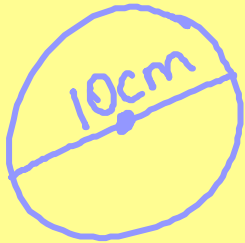
$$A = 50.2 \text{ m}^2$$

\*Formula for ALWAYS

	3	.	1	4		
0	0	3	0	0	4	1
1	8	0	6	2	4	6
0	2			4		

Area prob. always have squared units

2)



$$d = 10$$

$$r = 5$$

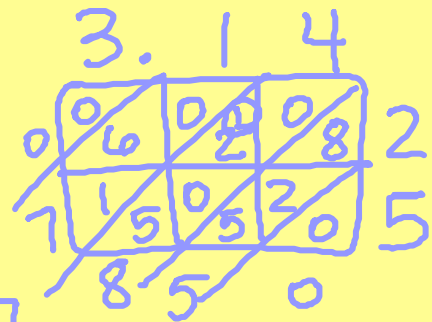
$$A = \pi r^2$$

$$A = 3.14 \times 5^2$$

$$A = 3.14 \times 25$$

$$A = 78.50 \text{ cm}^2$$

$$A = 78.5 \text{ cm}^2$$



3)

$$r = 5.5 \text{ cm}$$

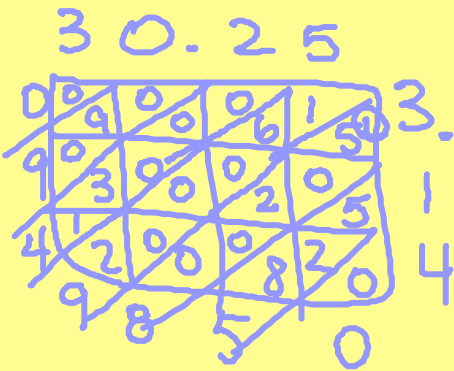
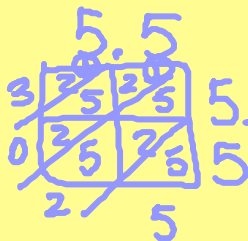
$$A = \pi r^2$$

$$A = 3.14 \times (5.5)^2$$

$$A = 3.14 \times 30.25$$

$$A = 94.9850$$

$$A = 95 \text{ cm}^2$$



$$4) d = 15.6 \text{ m}$$

$$\text{So } r = 7.8 \text{ m}$$

$$A = \pi r^2$$

$$A = 3.14 \times (7.8)^2$$

$$A = 3.14 \times 60.84$$

$$A = 191.0376$$

$$A = 191.0 \text{ m}^2$$

