

Name:

Period:

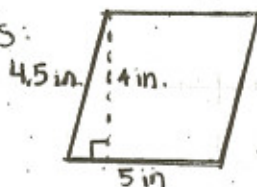
Date:

ch 10 REVIEW!

SECTION 1

- ☆ area of rectangle $\rightarrow A = bh$
- ☆ area of parallelogram $\rightarrow A = bh$
- ☆ area of triangle $\rightarrow A = \frac{1}{2}bh$

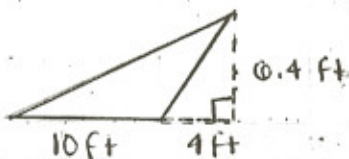
examples:



$$A = bh$$

$$= 5(4) = 20$$

$$A = 20 \text{ in}^2$$



$$A = \frac{1}{2}bh$$

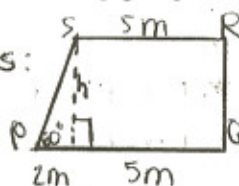
$$= \frac{1}{2}(10)(6.4)$$

$$A = 32 \text{ ft}^2$$

SECTION 2

- ☆ area of trapezoid $\rightarrow A = \frac{1}{2}h(b_1 + b_2)$
- ☆ area of rhombus or kite $\rightarrow A = \frac{1}{2}d_1d_2$

examples:

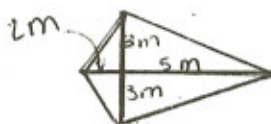


$$h = 2\sqrt{3}$$

$$A = \frac{1}{2}h(b_1 + b_2)$$

$$= \frac{1}{2}(2\sqrt{3})(7 + 5)$$

$$A = 12\sqrt{3} \text{ m}^2$$



$$A = \frac{1}{2}d_1d_2$$

$$A = \frac{1}{2}(7)(6)$$

$$A = 21$$

SECTION 3

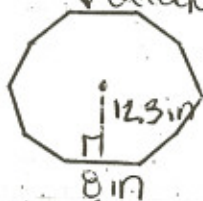
- ☆ Area of regular polygon $\rightarrow A = \frac{1}{2}ap$

$$p = ns$$

$$= 10(8) = 80 \text{ in}$$

$$A = \frac{1}{2}ap$$

$$= \frac{1}{2}(12.3)(80) = 492 \text{ in}^2$$



SECTION 5

- ☆ Area of a Δ Given SAS $= \frac{1}{2}bc(\sin A)$

$$A = \frac{1}{2} \cdot 412 \cdot 386 \cdot \sin 71^\circ$$

$$\approx 75183.855$$



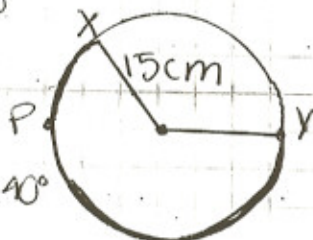
SECTION 6

- ☆ Circum. of $\odot = C = \pi d$ or $C = 2\pi r$

- ☆ Arc length = $\frac{m\widehat{XY}}{360} \cdot 2\pi r$

$$\text{length of } \widehat{XPY}$$

$$= \frac{m\widehat{XPY}}{360} \cdot 2\pi r$$



$$\text{length of } \widehat{XPY} =$$

$$\frac{240}{360} \cdot 2\pi(15)$$

$$= 20\pi \text{ cm}$$

SECTION 7

- ☆ Area of $\odot \rightarrow A = \pi r^2$

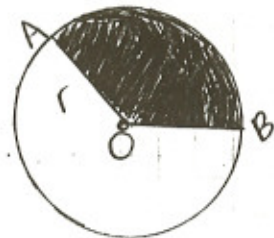
- ☆ Area of sector of a $\odot \rightarrow A \text{ of sector} = \frac{m\widehat{AB}}{360} \cdot \pi r^2$

$$\text{area of sector } AOB =$$

$$\frac{m\widehat{AB}}{360} \cdot \pi r^2$$

$$= \frac{12}{360} \cdot \pi(20)^2$$

$$= 80\pi \text{ cm}^2$$



area of sector

area of Δ

area of segment