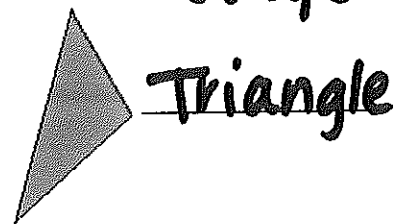
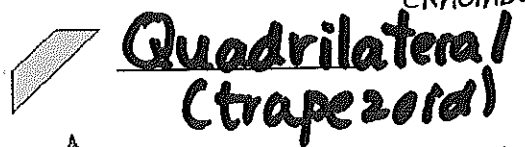
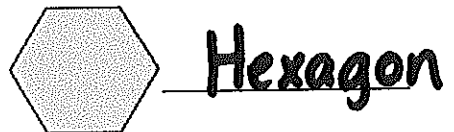
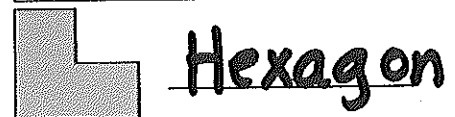
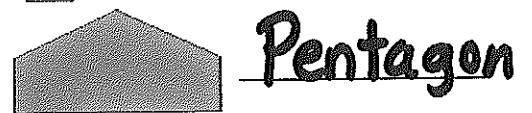
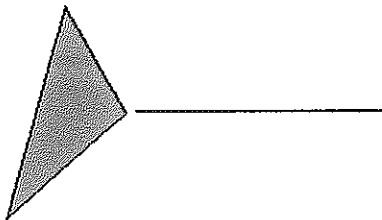
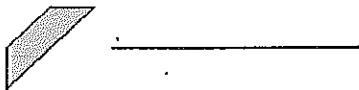
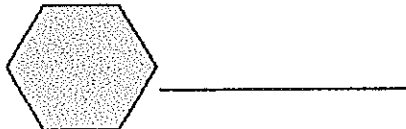
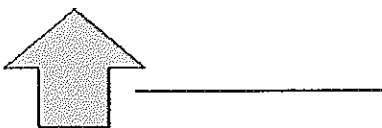
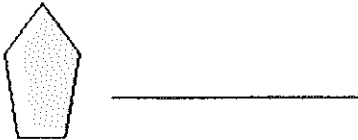


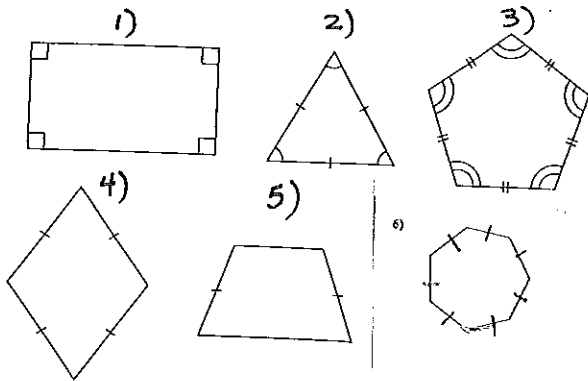
Name _____

Take Home and Check
Boot Camp 1: Polygons

1) Give the name of each polygon.
Use the big category name



2) Put an x in each shape which is a regular polygon. Explain why are they regular.

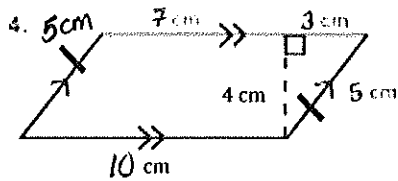


Explanation:

Regulars :
2, 3, 6

Regular polygons have sides that are the same length and angles that are the same size.

3) Find the area and perimeter of the figure below.



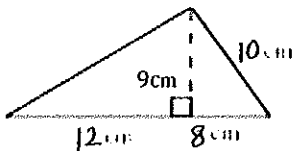
Perimeter =

$$7 + 3 + 5 + 10 + 5 = 30 \text{ cm}$$

Area =

$$bh (10)(4) = 40 \text{ cm}^2$$

4) Find the area of the figure below.

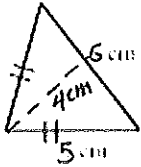


Area =

$$\frac{bh}{2} = \frac{(20)(9)}{2} = \frac{180}{2} =$$

$$90 \text{ cm}^2$$

- 5) Find the perimeter and area of the following figure.



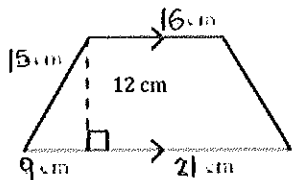
Perimeter =

$$5 + 5 + 6 = \boxed{16 \text{ cm}}$$

Area =

$$\frac{bh}{2} = \frac{(5)(4)}{2} = \frac{20}{2} = \boxed{10 \text{ cm}^2}$$

- 6) Find the area of this figure.



Area =

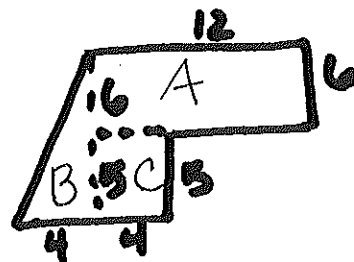
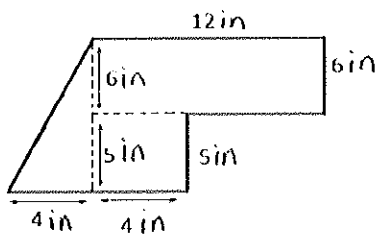
$$\frac{1}{2} h (b_1 + b_2)$$

$$\frac{1}{2} (12) (30 + 16)$$

$$6 (46) =$$

$$\boxed{276 \text{ cm}^2}$$

- 7) Find the area of the figure below.



Total =

$$72 + 22 + 25 =$$

$$\boxed{119 \text{ in}^2}$$

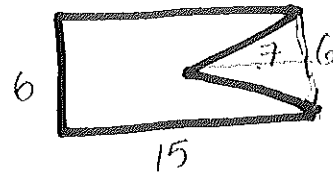
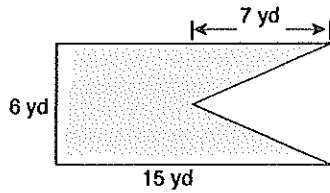
$$A = (b)(h)$$

$$(12)(6) = 72$$

$$B = \frac{bh}{2} = \frac{(4)(11)}{2} = \frac{44}{2} = 22$$

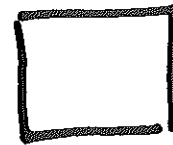
$$C = bh = (5)(5) = 25$$

11) Find the area of the shape below.



$$\begin{aligned} \text{Area of rect} &= bh (15)(6) = 90 \\ \text{Tri} &= \frac{bh}{2} = \frac{(6)(7)}{2} = \frac{42}{2} = 21 \\ 90 - 21 &= \boxed{69 \text{ yd}^2} \end{aligned}$$

12) The perimeter of a square quilt is 88 inches.
What is the area of the quilt?



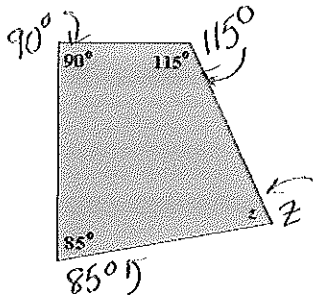
$$p = 88$$

$$88 \div 4 = 22 / \text{side}$$

$$22 \times 22 =$$

$$\boxed{484 \text{ in}^2}$$

8) What is the measure of angle z?



Explain how you got your answer.

All quadrilaterals have angles = 360.

$$90 + 115 + 85 = 290$$

$$360 - 290 =$$

$$\boxed{70^\circ}$$

9) The play area inside a rectangular fence is 250 square feet. If the width of the fence is 5 feet, find the perimeter of the play area.

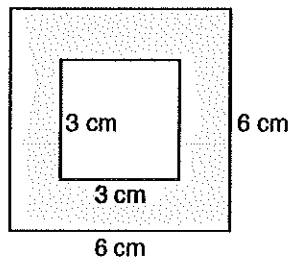
$$\boxed{250} \text{ } 5$$

$$(5)(x) = 250$$

$$x = 50$$

$$5 \begin{array}{|c|} \hline 50 \\ \hline \end{array} 5 \quad \boxed{110\text{ft}}$$

10) Find the area of the shaded region.



Area of large =

$$(6)(6) = 36$$

Area of small sq =

$$(3)(3) = 9$$

$$36 - 9 = 27$$

$$\boxed{27\text{cm}^2}$$