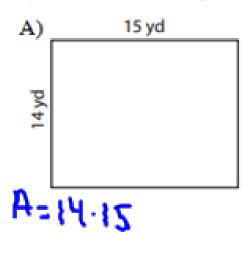
Get out your homework and have it ready to check. Grab a worksheet from the front table and Warm Up on #1 A-F only.

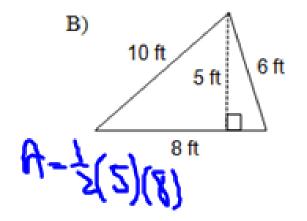
Classwork - 2D Area Review

1) Find the area and perimeter of the following rectangles and triangles. SHOW WORK AND LABEL

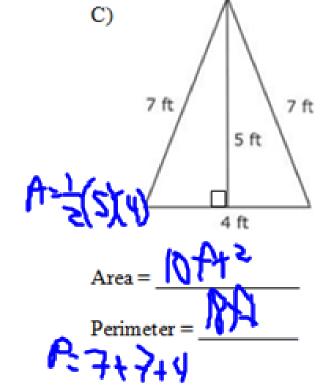


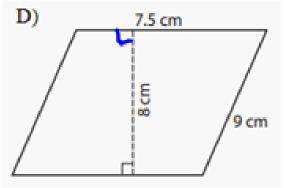
Area =
$$\frac{210 y d^2}{58 y d}$$

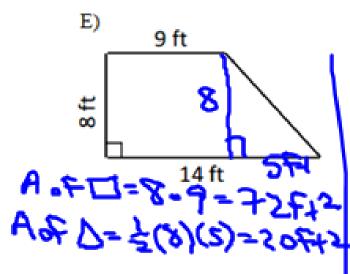
Perimeter = $\frac{58 y d}{19 + 15 + 19 + 15}$

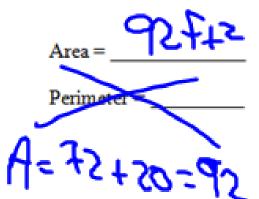


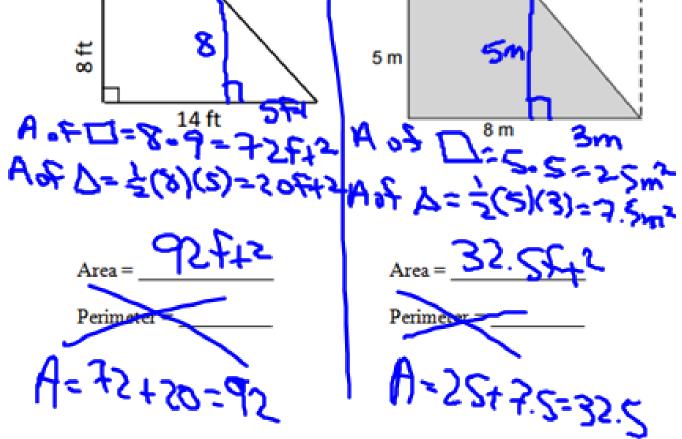
Area =
$$\frac{204}{244}$$
Perimeter = $\frac{244}{104}$











Area Word Problems

5) A triangular side of the Great Pyramid of Giza has a base that it 230 meters and a height that is 148 meters.

What is the area of the side of the pyramid?
$$A = \frac{230.148}{2} \Rightarrow \frac{34040}{2} = (17020 \text{ m}^2)$$

6) This piece of paper is 8.5 inches by 11 inches. What is the area of this piece of paper?

7) The screen of an iPad has an area of 54 square inches and a length of 6 inches. What is the width of the

iPad?

8) Graph the following points.

A) If you connect the points, what type of polygon do they form? Re as specific as possible.

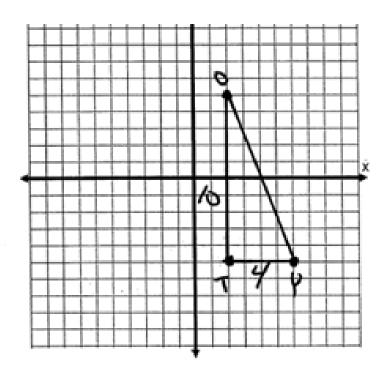
B) Find the area of polygon that the points formed.

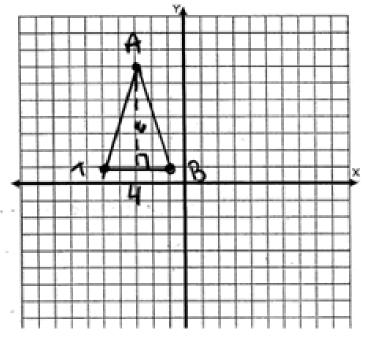
Graph the following points.

Point A (-3, 7) Point T (-5, 1)

A) If you connect the points, what type of polygon do they form? Be as specific as possible.

B) Find the area of polygon that the points formed.





Graph the following points.

Point P (7,1) Point A (4,-3)

A) If you connect the points, what type of polygon do they form? Be as specific as possible. Quadrilateral isn't specific enough.

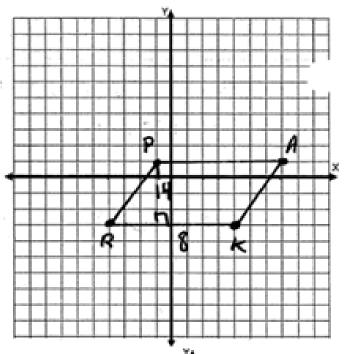
B) Find the area of polygon that the points formed.

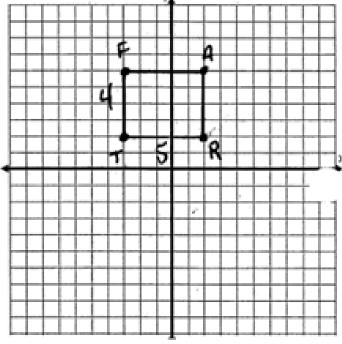
Graph the following points.

Point A (2, 6)

A) If you connect the points, what type of polygon do they form? Be as specific as possible. Quadrilateral isn't specific enough.

B) Find the area of polygon that the points formed.





Graph the following points.

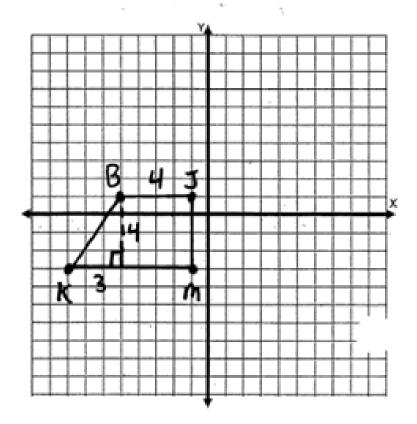
Point B
$$(-5, 1)$$
 Point K $(-8, -3)$

A) If you connect the points, what type of polygon do they form? Be as specific as possible. Quadrilateral isn't specific enough.

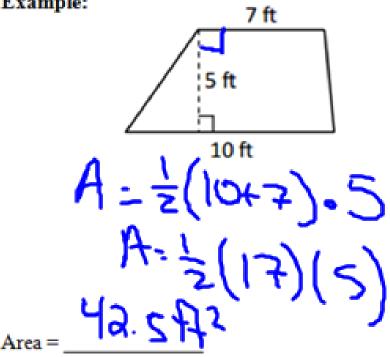
B) Find the area of polygon that the points formed.

A of
$$\Delta = \frac{1}{2} \cdot 4 \cdot 3 = 6 \text{ units}^2$$

Area = 22 units²



Finding the Area of Trapezoids Using Formula Example:

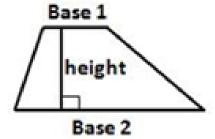


FORMULA TO FIND AREA OF A TRAPEZOID

$$Area = \frac{1}{2} \text{(base 1 + base 2)} \cdot \text{height}$$

$$OR$$

$$Area = \frac{\text{height} \cdot \text{(base 1 + base 2)}}{2}$$



Area of a Trapezoid =
$$\frac{h(b_1+b_2)}{2}$$
 units²;
where $h = height$,
 $b_1 = length \ of \ base \ 1$,
 $b_2 = length \ of \ base \ 2$.

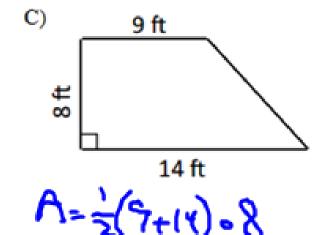
2) Find the area of the following trapezoids using the formula. SHOW WORK AND LABEL

A) 9 mm
7 mm
16 mm

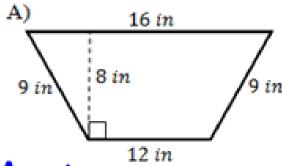
$$Area = 87.5 mm^2$$

A = 3(12+7) • 11 m

$$Area = 104.5m$$



3) Find the area of the following trapezoids using the formula. SHOW WORK AND LABEL



$$Area = \frac{112in^2}{Perimeter} = \frac{16in^2}{16in^2}$$

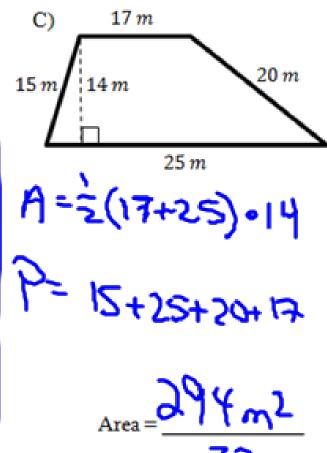
$$A = \frac{10ft}{10ft}$$

$$A = \frac{10ft}{10}$$

$$A = \frac{10$$

$$Area = 140 ft^2$$

$$Perimeter = 51 ft$$



4) The area of a tile floor is 280 square feet and has a width of 14 feet. What is the length of the floor?

5) A triangle has a base of 8 inches and an area of 52 square inches. What is the height of the triangle?

5) A triangle has a base of 8 inches and an area of 52
$$A = \frac{1}{2}bh$$

$$A = 52in^2$$