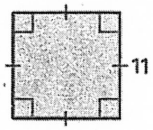
Geometry- Mrs. Tilus Name: Key

Unit 11- Worksheet #1: Areas of Triangles and Parallelograms Worksheet

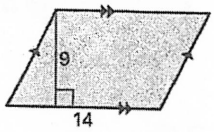
Find the area of the polygon.

1. 

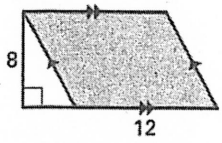
$A = 96 \text{ units}^2$

2. 

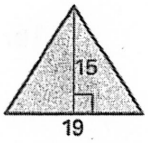
$A = 121 \text{ units}^2$

3. 

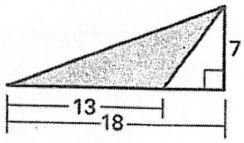
$A = 126 \text{ units}^2$

4. 

$A = 96 \text{ units}^2$

5. 

$A = 142.5 \text{ unit}^2$

6. 

$A = 45.5 \text{ units}^2$

The lengths of the hypotenuse and one leg of a right triangle are given. Find the perimeter and area of the triangle.

7. Hypotenuse: 26 cm
   Leg: 24 cm

$A = 120 \text{ cm}^2$

$P = 60 \text{ cm}$

8. Hypotenuse: 50 mm
   Leg: 14 mm

$A = 336 \text{ mm}^2$

$P = 112 \text{ mm}$

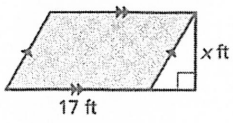
9. Hypotenuse: 37 ft
   Leg: 12 ft

$A = 210 \text{ ft}^2$

$P = 84 \text{ ft}$

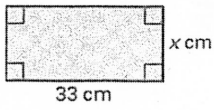
Find the value of x.

10. $A = 153\ ft^2$



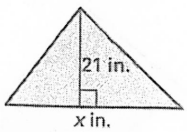
$x = 9 \text{ ft}$

11. $A = 528\ cm^2$



$x = 16 \text{ cm}$

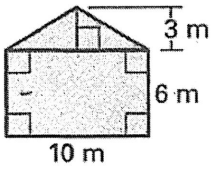
12. $A = 399\ in^2$



$x = 38 \text{ in}$

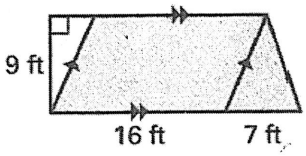
Find the area of the shaded polygon.

13.



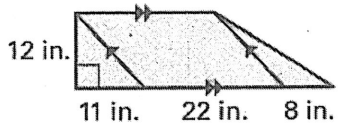
$A = 75\ m^2$

14.



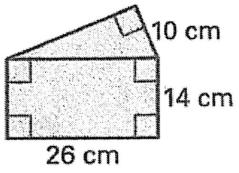
$A = 175.5\ ft^2$

15.



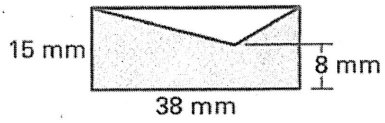
$A = 378\ in^2$

16.



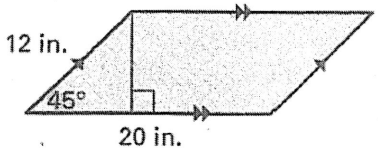
$A = 484\ cm^2$

17.



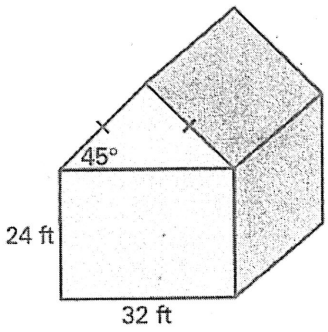
$A = 437\ mm^2$

18.



$A = 169.71\ in^2$

19. A painter is painting the back of your garage, which has the measurements shown. The painter can paint 200 square feet per hour and charges $25 per hour. How much will you have to pay if the painter rounds the time spent painting to the nearest half hour?



$125