

ALEKS® Geometry Quiz #1

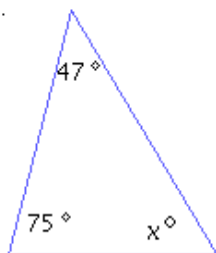
Beginning Algebra / Math 100 – Master No Book (Prof. Miller)

Student Name/ID:

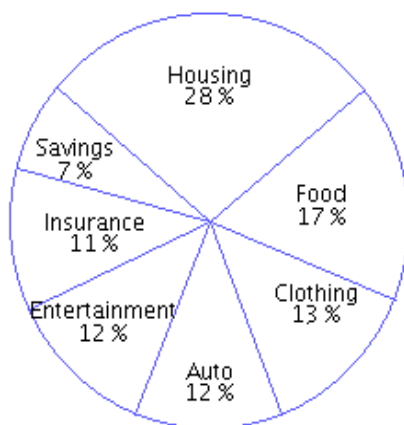
Instructor Note:

Directions: Every problem is worth two points. One point is for trying the problem and showing your work and one point is for getting the correct answer. There are an additional five points for demonstrating the study strategy that is posted on the board and talked about at the beginning of class.

1. Find the value of x



2. The circle graph shows how a family spends its annual income. If \$67,500 is used for Food and Housing combined, what is the total annual income?

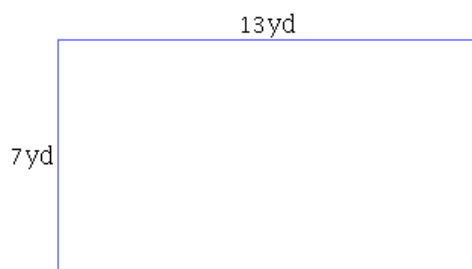


3. The perimeter of a rectangular field is 298 yards. If the length of the field is 85 yards, what is its width?

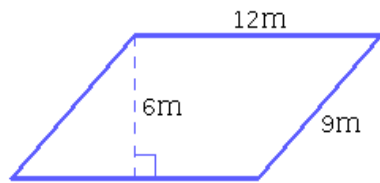
4. (a) An angle measures 31° . What is the measure of its supplement?

- (b) An angle measures 49° . What is the measure of its complement?

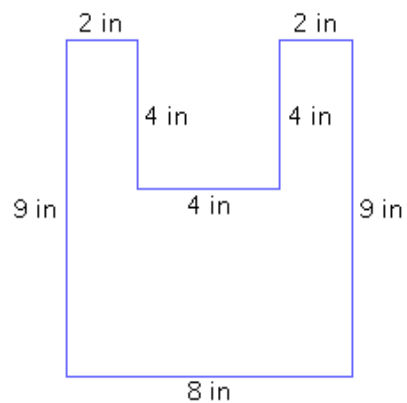
5. Find the area of this rectangle.



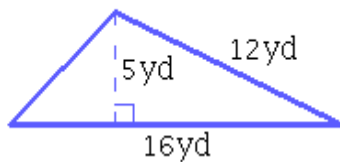
6. Find the area of this parallelogram. Be sure to include the correct unit in your answer.



7. Find the area of the figure. (Sides meet at right angles.)



8. Find the area of the triangle below.
Be sure to include the correct unit in your answer.



9. A rectangular garden measures 29 ft by 46 ft. Surrounding (and bordering) the garden is a path 4 ft wide. Find the area of this path. Be sure to include the correct unit in your answer.

10. A pet store has 7 cats. Here are their weights (in pounds).

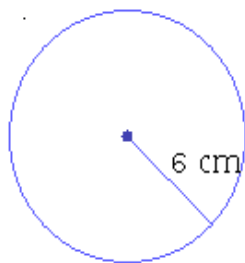
16, 7, 15, 15, 16, 13, 7

Find the mean weight of these cats.

If necessary, round your answer to the nearest tenth.

11. Find the area and the circumference of a circle with radius 6 cm.

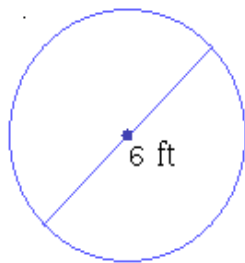
Use the value 3.14 for π and do not round your answers. Be sure to include the correct units in your



answers.

12. Find the circumference and the area of a circle with diameter 6 ft.

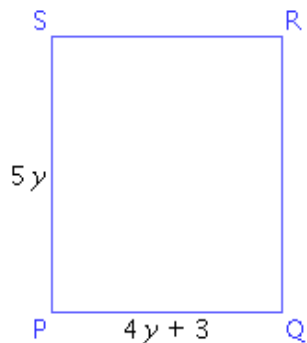
Use the value 3.14 for π and do not round your answers. Be sure to include the correct units in your



answers.

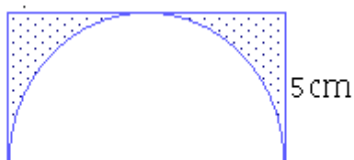
13. The perimeter of the rectangle below is 132 units. Find the length of side \overline{PS}

Write your answer without variables.



14. A rectangle is placed around a semicircle as shown below. The width of the rectangle is 5 cm

Find the area of the shaded region. Use the value 3.14 for π and do not round your answer. Be sure to include the correct unit in your answer.



15. The length of a rectangle is 4 yd longer than its width.

If the perimeter of the rectangle is 40 yd find its area.

Geometry Quiz #1 Answers for class Beginning Algebra / Math 100 – Master No Book

1. $x = 58$
2. \$150,000
3. 64 yards
4. measure of the supplement: 149°
measure of the complement: 41° .
5. 91 yd^2
6. 72 m^2
7. 56 in^2
8. 40 yd^2
9. 664 ft^2
10. 12.7 pounds
11. Area: 113.04 cm^2
Circumference: 37.68 cm
12. Circumference: 18.84 ft
Area: 28.26 ft^2
13. $PS = 35$
14. 10.75 cm^2
15. 96 yd^2