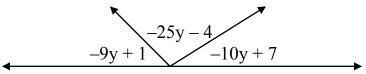
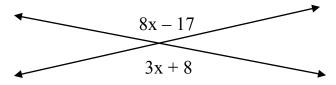
Geometry Homework #2

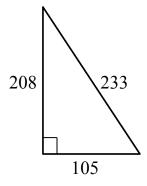
1) Find y and the sizes of all three angles in the following drawing:



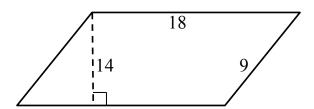
2) Find x and the sizes of both angles in the following drawing:



3) Find the perimeter and area of the following triangle:

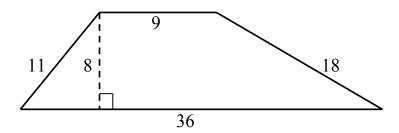


4) Find the perimeter and area of the following parallelogram:



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5) Find the perimeter and area of the following trapezoid:

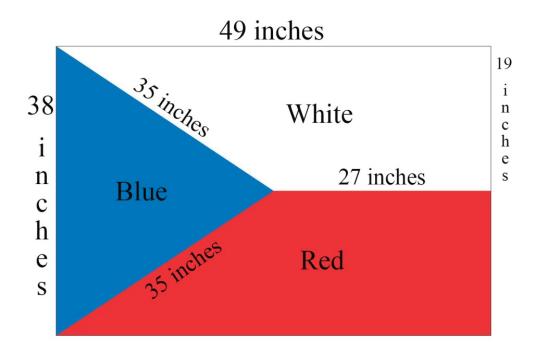


- 6) Find the circumference and area of a circle with a radius of 8. Find the answers exactly AND approximately by approximating π as 3.14.
- 7) Abigail's soccer team plays on a rectangular field that is 75 yards wide and 115 yards long. If Abigail runs around the perimeter of the field, how far will she run, in yards, and how large is the field in square yards?
- 8) The logo for the United States Postal Service looks similar to the picture below. If this exact logo is placed on the side of a postal truck, how long, in inches, is the black border around the outside of the logo and how much area, in square inches, does the logo take up on the side of the truck?



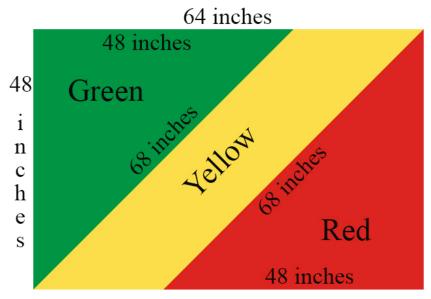
9) Find the circumference and area of a circle with a diameter of 26. Find the answers exactly AND approximately by approximating π as 3.14.

10) The national flag of Columbia is a rectangle and is shown below. Find the perimeter, in inches, and the area, in square inches, of the red, white, and blue sections and the perimeter, in inches, and the area, in square inches, of the entire flag.



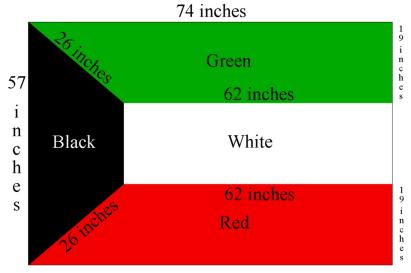
- 11) Wonder Woman's shield is 26 inches in diameter. Find the circumference of the shield, in inches, and how much area, in square inches, it protects. Find both answers exactly AND approximately by approximating π as 3.14.
- 12) Find the circumference and area of a circle with a radius of 29. Find the answers exactly AND approximately by approximating π as 3.14.
- 13) A rectangular window in a house is 26 inches wide and 38 inches tall. What is the perimeter, in inches, of the window and how large is its area, in square inches?

14) The national flag of the Republic of the Congo is a rectangle and is shown below. Find the perimeter, in inches, and the area, in square inches, of the green, yellow, and red sections and the perimeter, in inches, and the area, in square inches, of the entire flag.

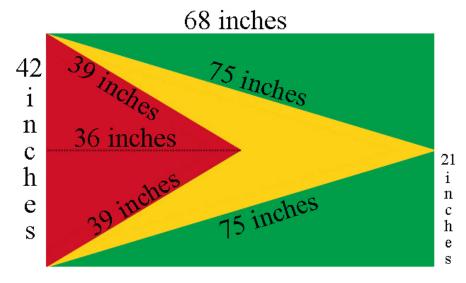


- 15) Find the circumference and area of a circle with a diameter of 15. Find the answers exactly AND approximately by approximating π as 3.14.
- 16) The core of the stone slab monument at Stonehenge in Great Britain is in the shape of a circle with a diameter of 110 feet. If you walk around the circumference of this ancient monument, how far, in feet, would you travel and how much area, in square feet, does the core of the circular monument cover? Find the answers exactly AND approximately by approximating π as 3.14.

17) The national flag of Kuwait is a rectangle and is shown below. Find the perimeter, in inches, and the area, in square inches, of the black, green, white, and red sections and the perimeter, in inches, and the area, in square inches, of the entire flag.



- 18) Find the circumference and area of a circle with a radius of 87. Find the answers exactly AND approximately by approximating π as 3.14.
- 19) The national flag of Guyana is a rectangle and is shown below. Find the perimeter, in inches, and the area, in square inches, of the red, yellow, and green sections and the perimeter, in inches, and the area, in square inches, of the entire flag.



20) Captain America's shield is 30 inches in diameter. Find the circumference of the shield, in inches, and how much area, in square inches, it protects. Find the answers exactly AND approximately by approximating π as 3.14. Bonus Question: Who has the better shield and why...Wonder Woman or Captain America?

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