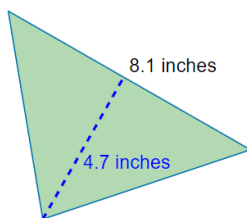


Warmup

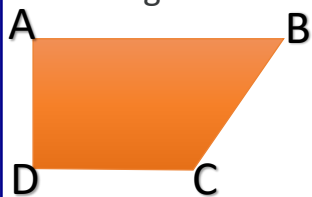
1. Use the distributive property to fill in the equation.

$$5xy + 5xz = \underline{\hspace{2cm}} (y + \underline{\hspace{2cm}})$$

2. Calculate the Area



3. Given Quadrilateral ABCD, answer the following.



parallel sides:

perpendicular sides:

4. Classify each polygon.



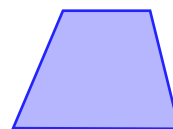
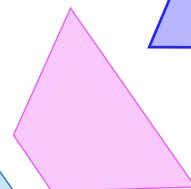
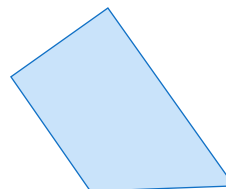
I. Definition of a Trapezoid

Trapezoid

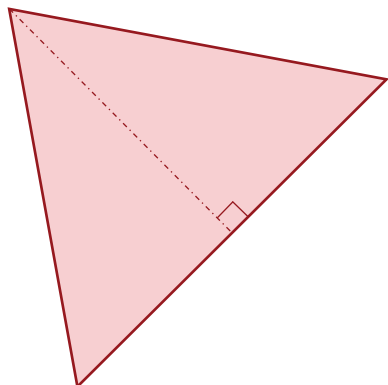
A quadrilateral with exactly one pair of parallel sides.



Mark the parallel sides of each trapezoid.

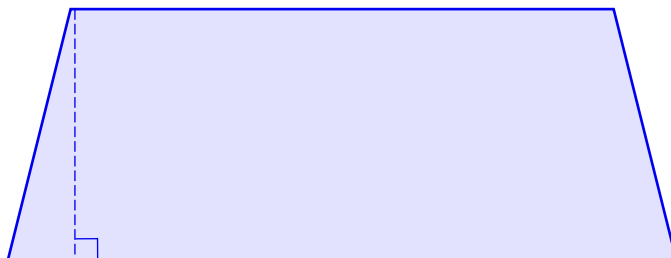


Label the base and the height of the triangle



The base and height form a _____ angle.

Label the base and the height of the trapezoid

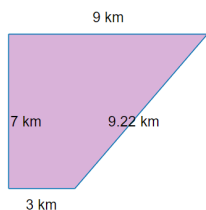


A trapezoid has _____.

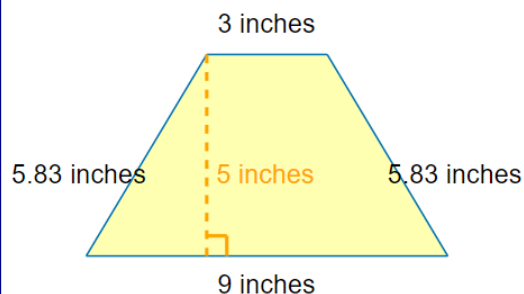
The height is _____ to the bases.

II. Perimeter of a Trapezoid

To calculate the perimeter of a trapezoid:



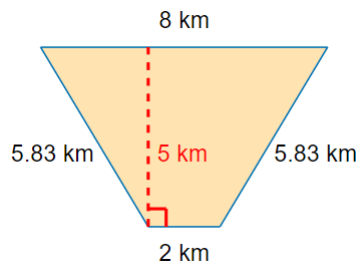
6. Calculate the perimeter of the trapezoid



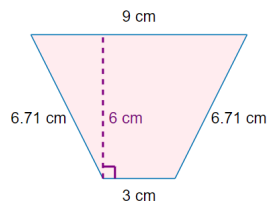
7. Draw the trapezoid pictured, then calculate its perimeter.

III. Area of a Trapezoid

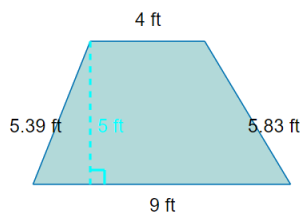
To calculate the area of a trapezoid:



8. Calculate the area of the trapezoid



9. Calculate the area of the trapezoid

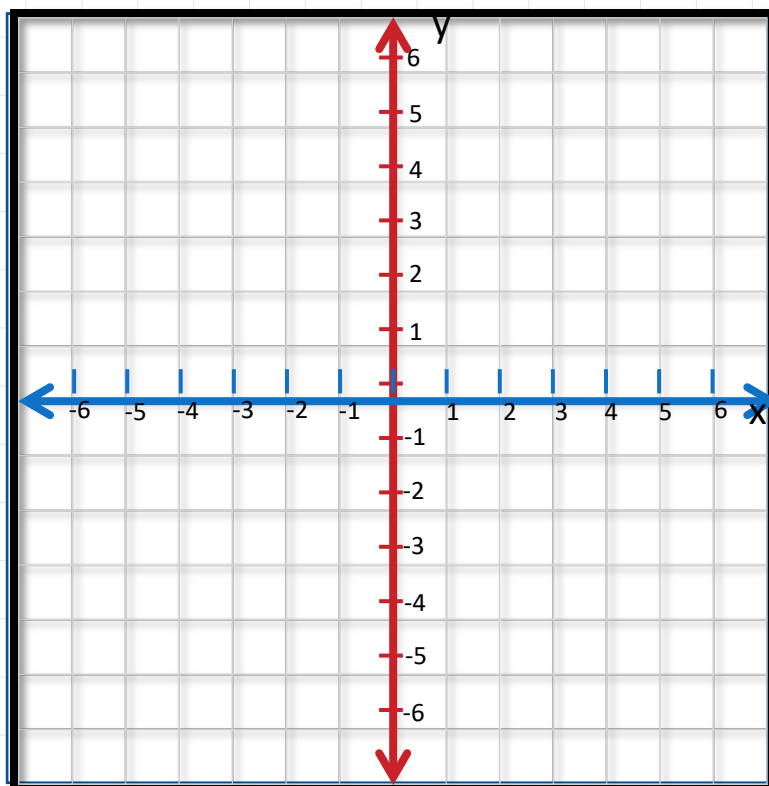


10. Draw the trapezoid pictured, then calculate its area.

IV. Practice

11	12	13
14	15	
16	17	
18	19	

20



21

22

23

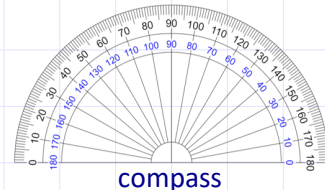
24

25

26

27 Start at the blue dot. Write the directions for drawing the trapezoid shown. You must use the following 'commands':

The arrow on the dot shows the direction the pencil can travel. It is facing to the right here. It can only travel to the right. (until it is turned) (You may use a compass to measure the angles.)

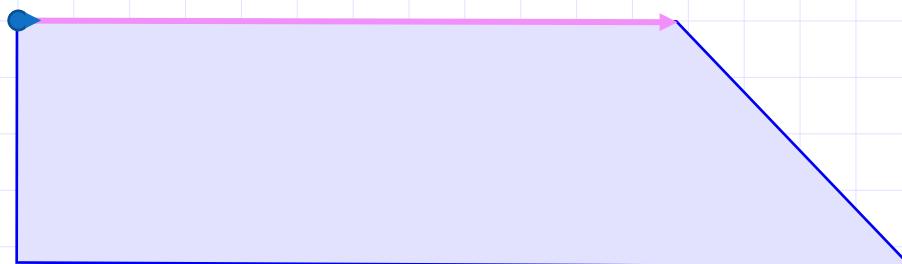


To make the pencil move forward _____ squares use: Move _____ steps

To turn, determine if you want to go left or right, and how many degrees.

To turn left: Turn Left _____ degrees

To turn right: Turn Right _____ degrees



The first step is shown in purple.

The second step is started.

Directions:

Move 12 steps

Turn Right _____ degrees