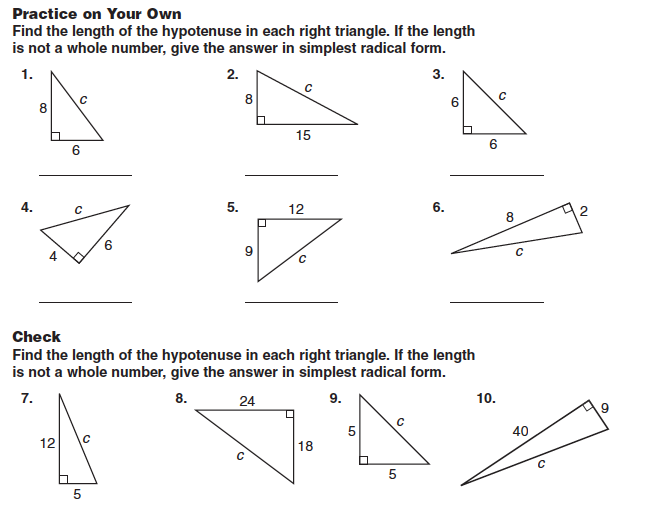
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block:\_\_\_\_\_\_\_\_

**Areas of Polygons**

**Perimeter, Circumference, and Area**

Warm-Up:

Find the length of the hypotenuse in each right triangle. If the length is not a whole number, give the answer in simplest radical form.



Objectives: 1.

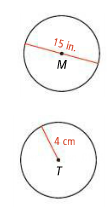
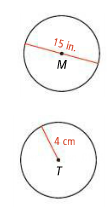
2.

Class Notes:

|  |  |
| --- | --- |
| **Perimeter** |  |
| **Area** |  |

|  |  |
| --- | --- |
| **Perimeter, Circumference, and Area** | |
| **Square**  P =  A = | **Triangle**  P =  A = |
| **Rectangle**  P =  A = | **Circle**  C =  A = |

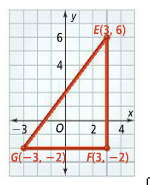
Find the circumference of the circle in terms of . What is the circumference of the circle to the nearest tenth?

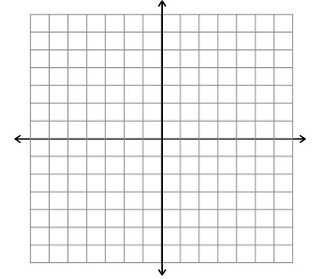
 

What is the circumference of a circle with a **radius** of 12 m in terms of ?

What is the circumference of a circle with a **diameter** of 12 m to the nearest tenth?

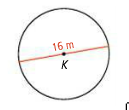
What is the perimeter of ?





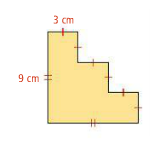
Graph quadrilateral JKLM with vertices J(-3, -3), K(1, -3), L(1, 4), and M(-3, 1). What is the perimeter of JKLM?

What is the area of circle K in terms of ?

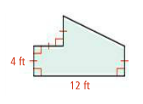


What is the area of a circle with a diameter of 14 ft. in terms of ?

Find the area and perimeter of the figure.

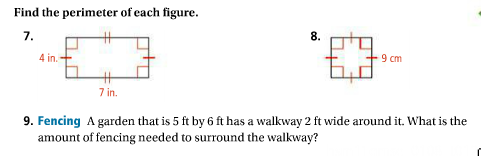


What is the area of the figure?

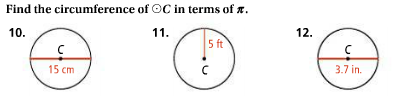


Practice:

Find the perimeter and area of each figure

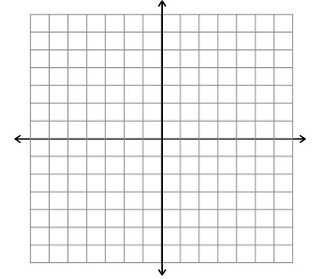
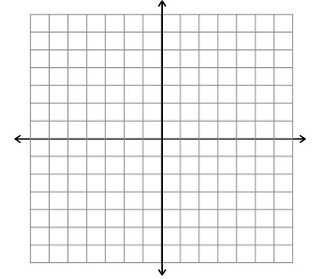


Find the circumference and area of in terms of

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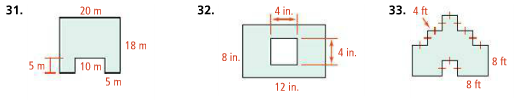
Graph each figure in the coordinate plane. Find each perimeter.

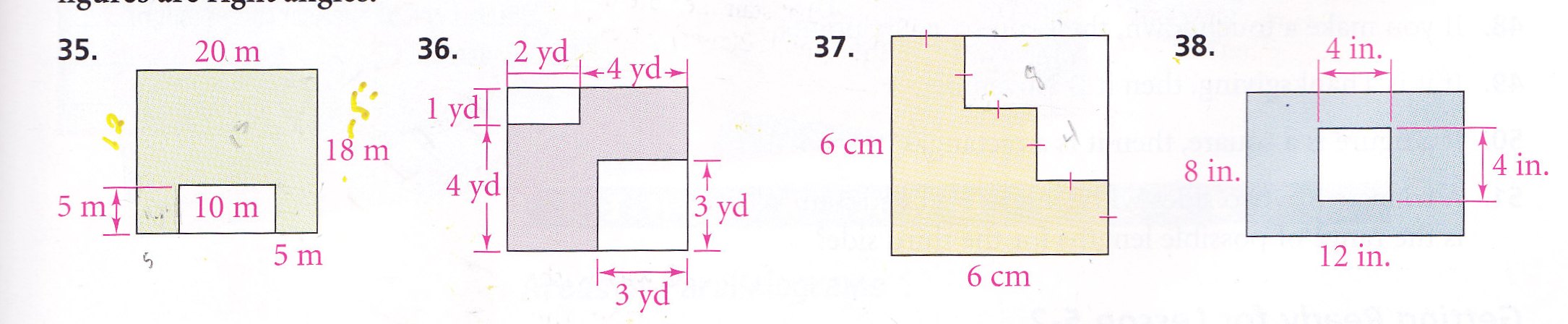
13. X(0, 2), Y(4, -1), Z(-2, -1)



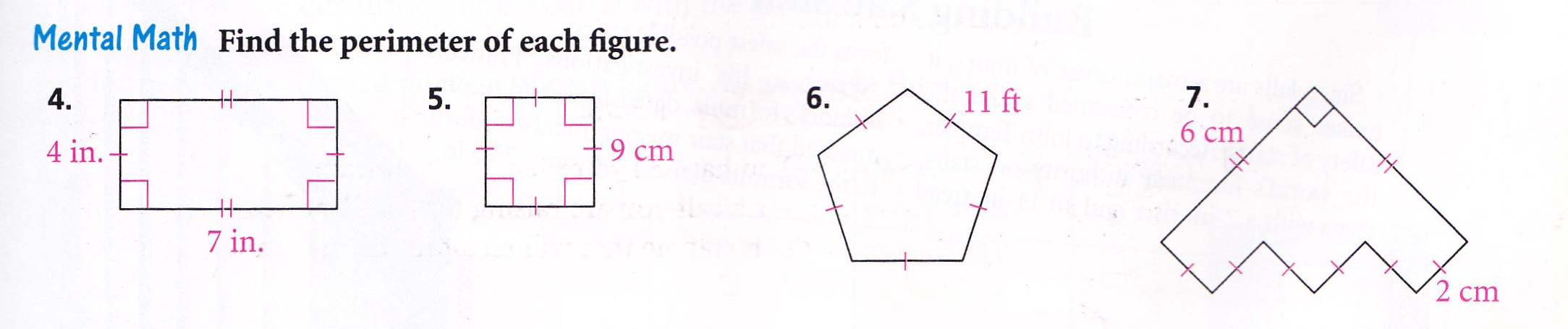
14. L(0, 1), M(3, 5), N(5, 5), P(5, 1

Find the area of the shaded region. All angles are right angles.



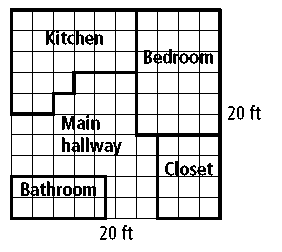


Find the perimeter of each figure.



**Areas of Parallelograms and Triangles**

Warm-Up:

The units of the floor plan at the right are in feet. Find the perimeter and area of each room.

1. The kitchen
2. The bedroom
3. The bathroom
4. The closet

What is the area of the main hallway? Explain how you could find this area using the area of each room.

Objectives: 1.

Class Notes:

**Area of a Rectangle**

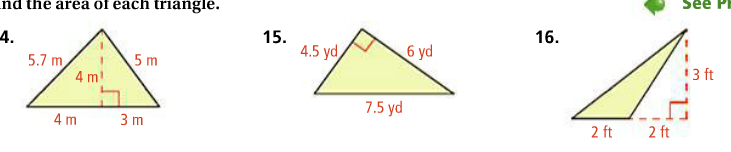
**Area of a Parallelogram**

What is the area?

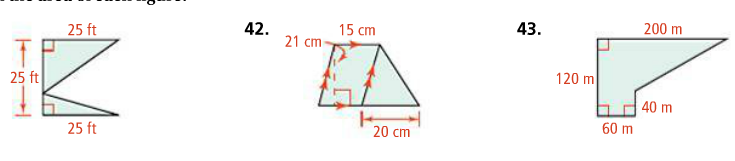


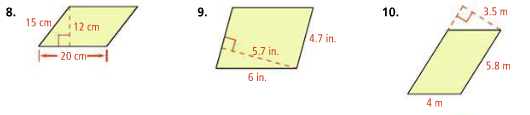
**Area of a Triangle**

Find the area

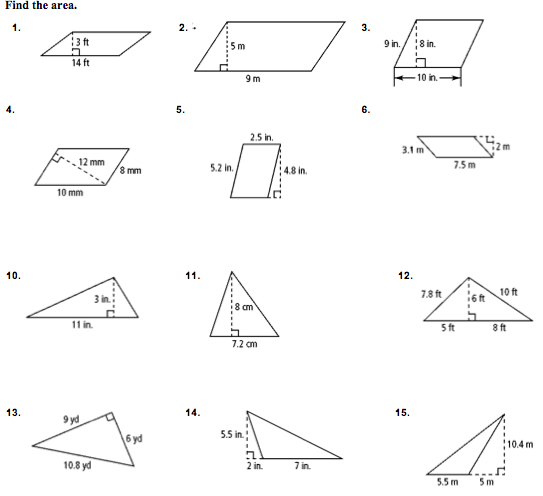


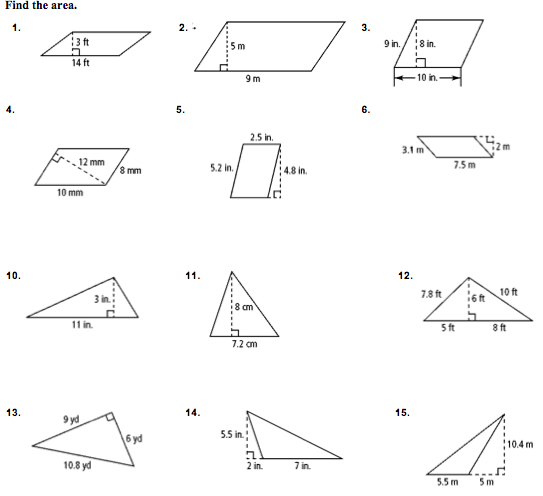
Find the area.

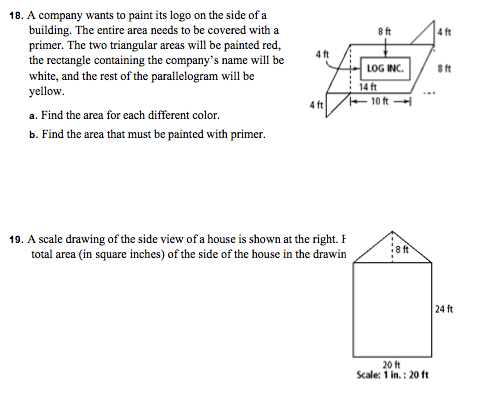


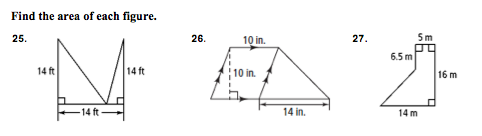


Practice:

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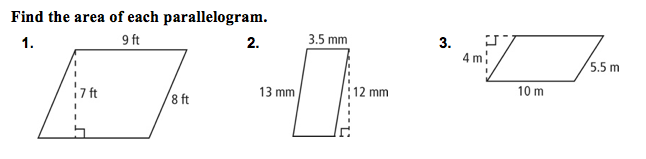
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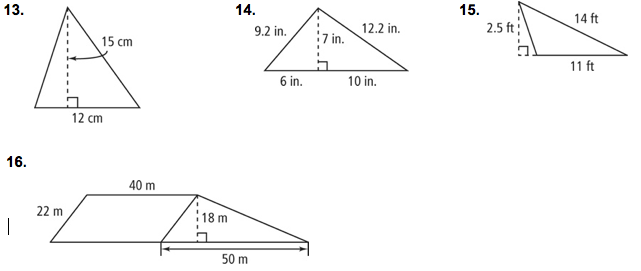
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**Areas of Trapezoids, Rhombuses, and Kites**

Warm-Up:

Find the area.



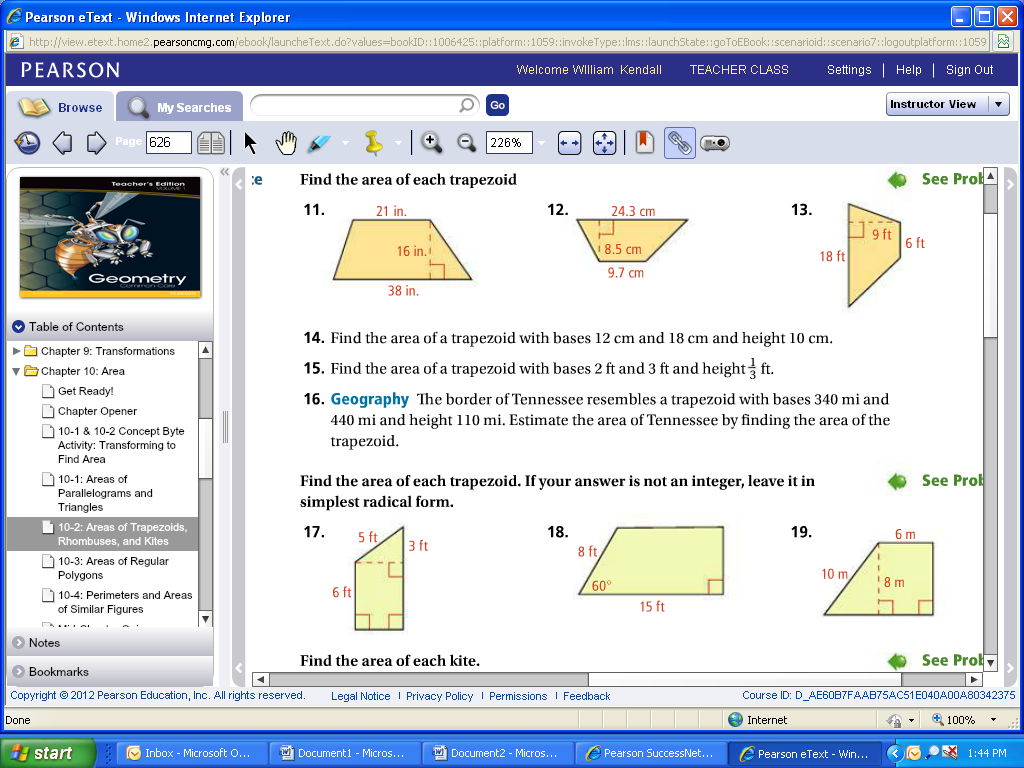


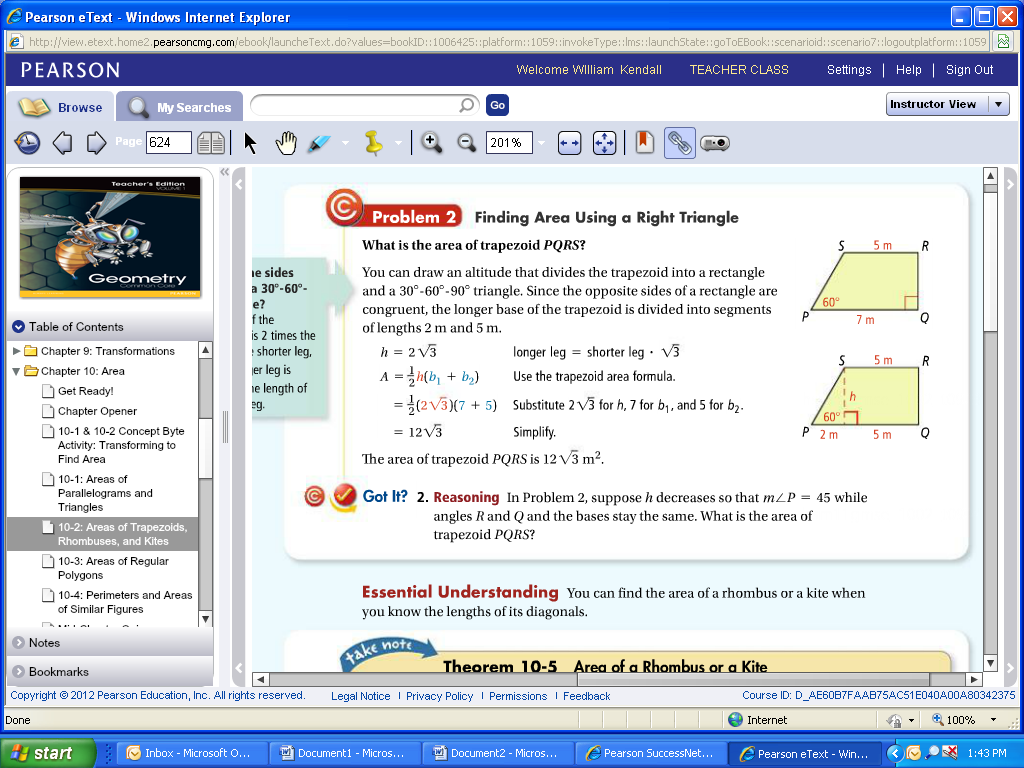
Objectives: 1.

Class Notes:

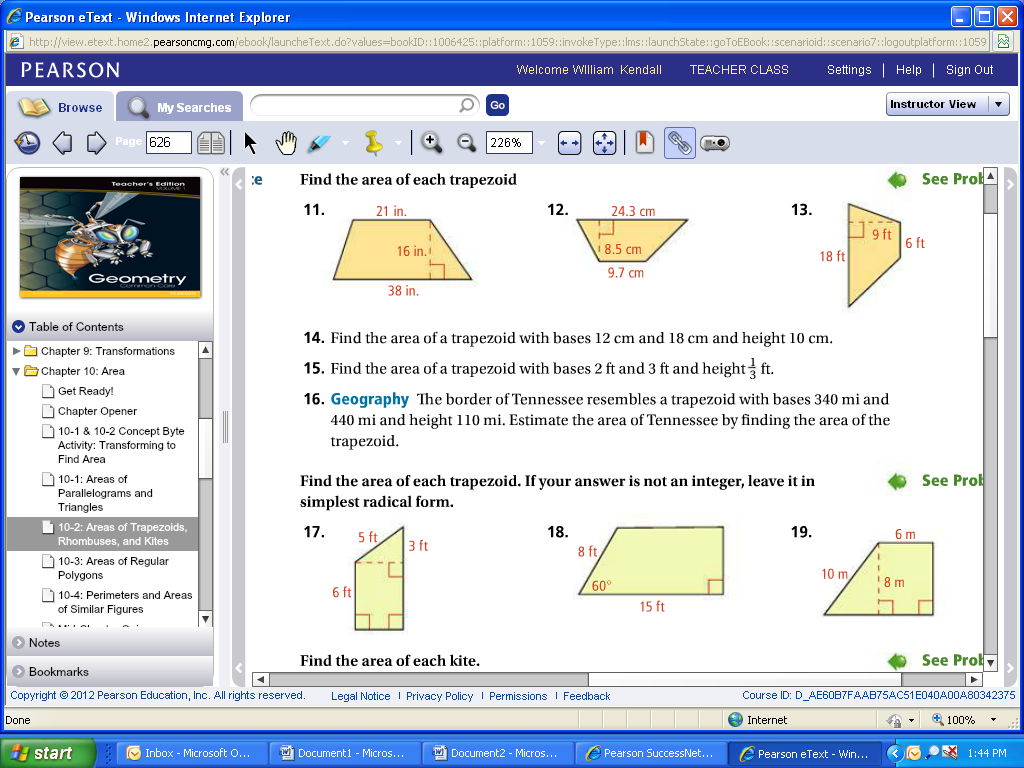
|  |
| --- |
| Area of a Trapezoid |
|  |

Find the area of each trapezoid.

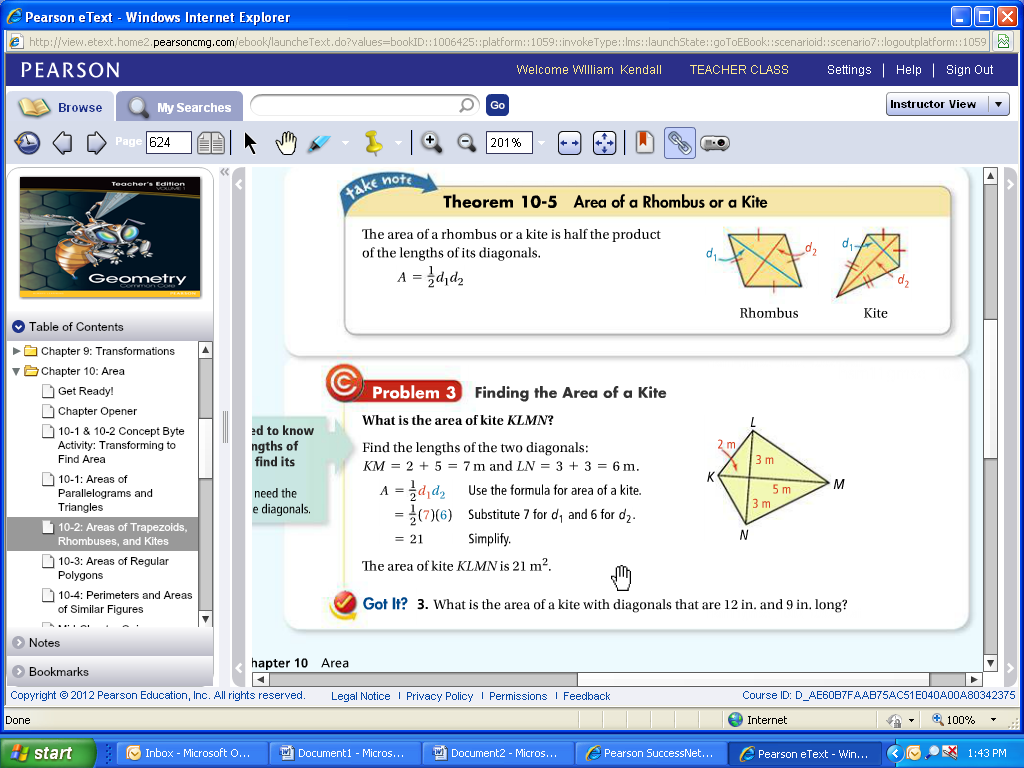


Find the area of trapezoid PQRS?

Find the area of each trapezoid. If your answer is not an integer, leave it in simplest radical form.

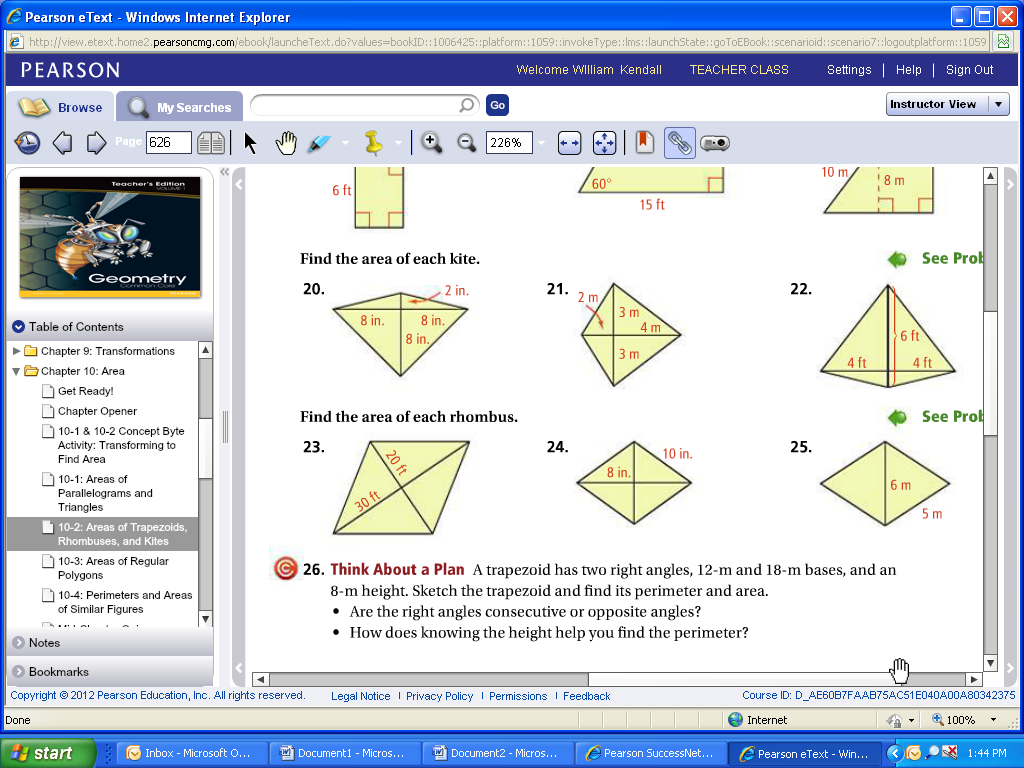


|  |
| --- |
| Area of a Rhombus or a Kite |
|  |

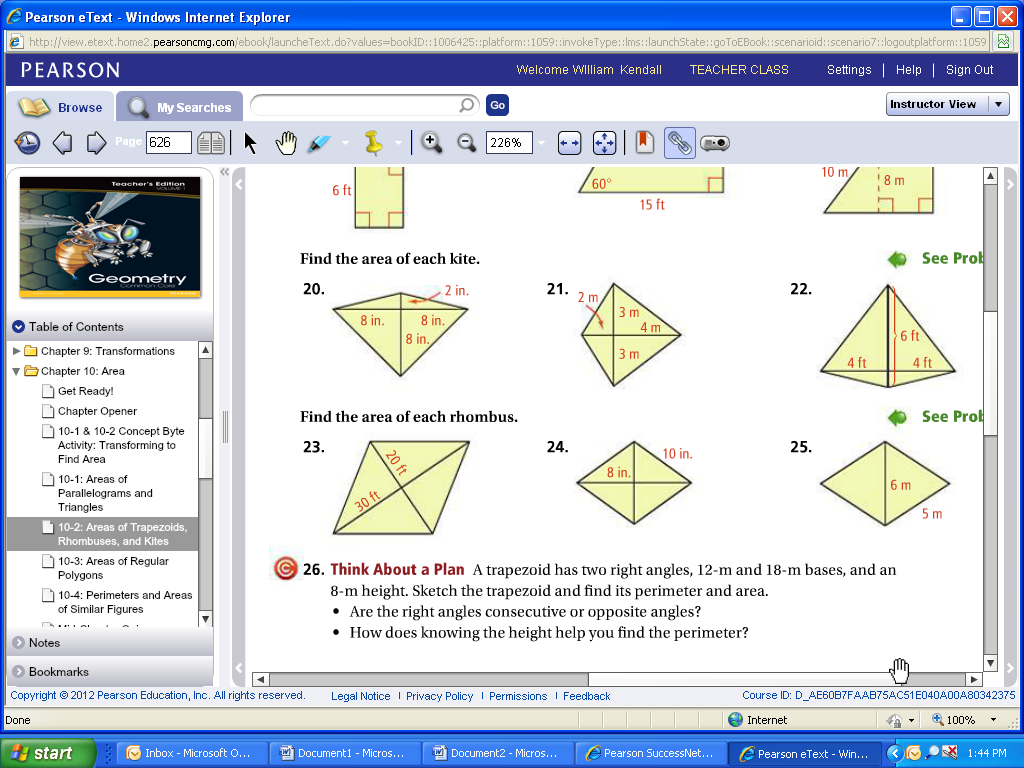


Find the area of kite KLMN?

Find the area of each kite.

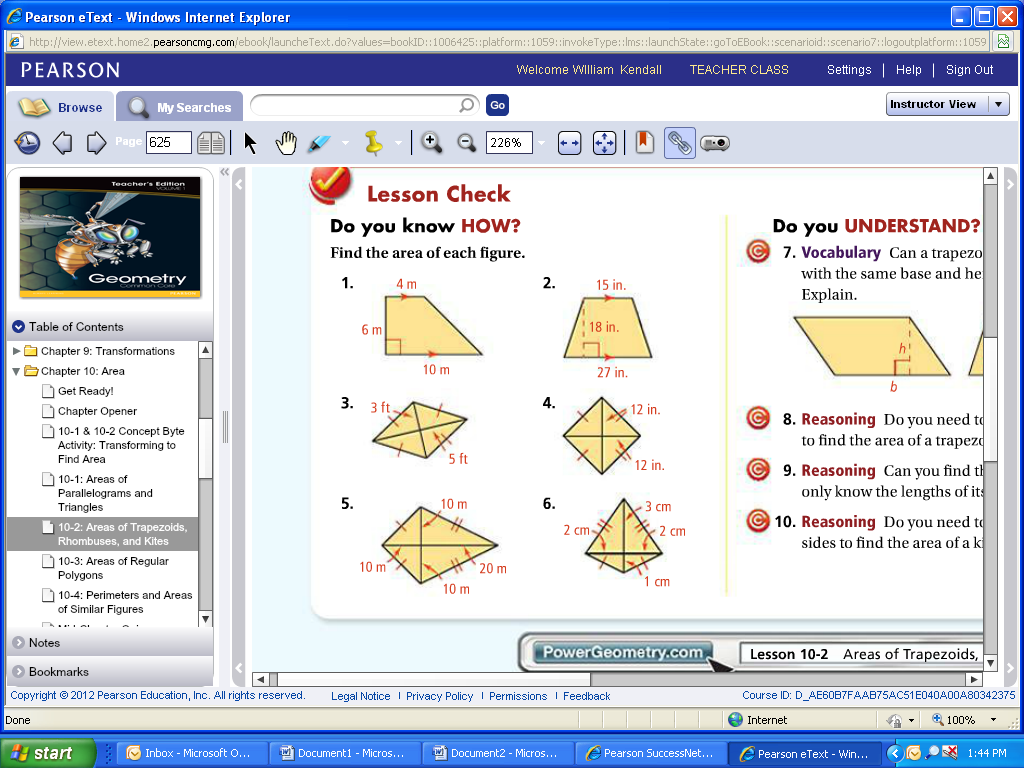
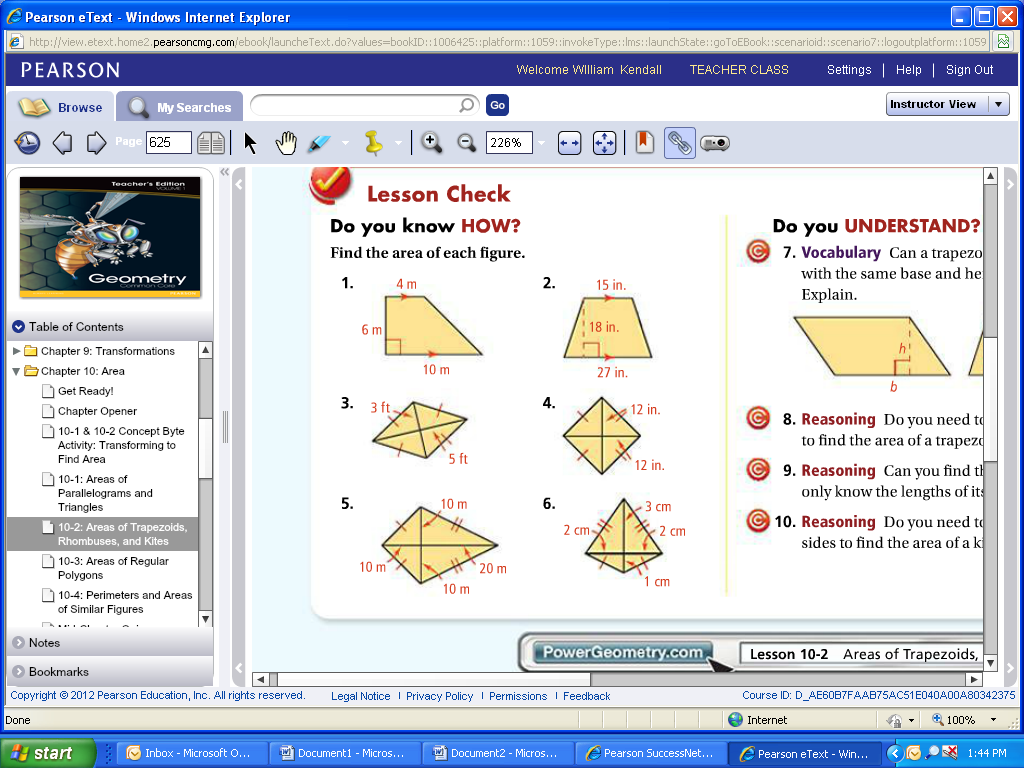


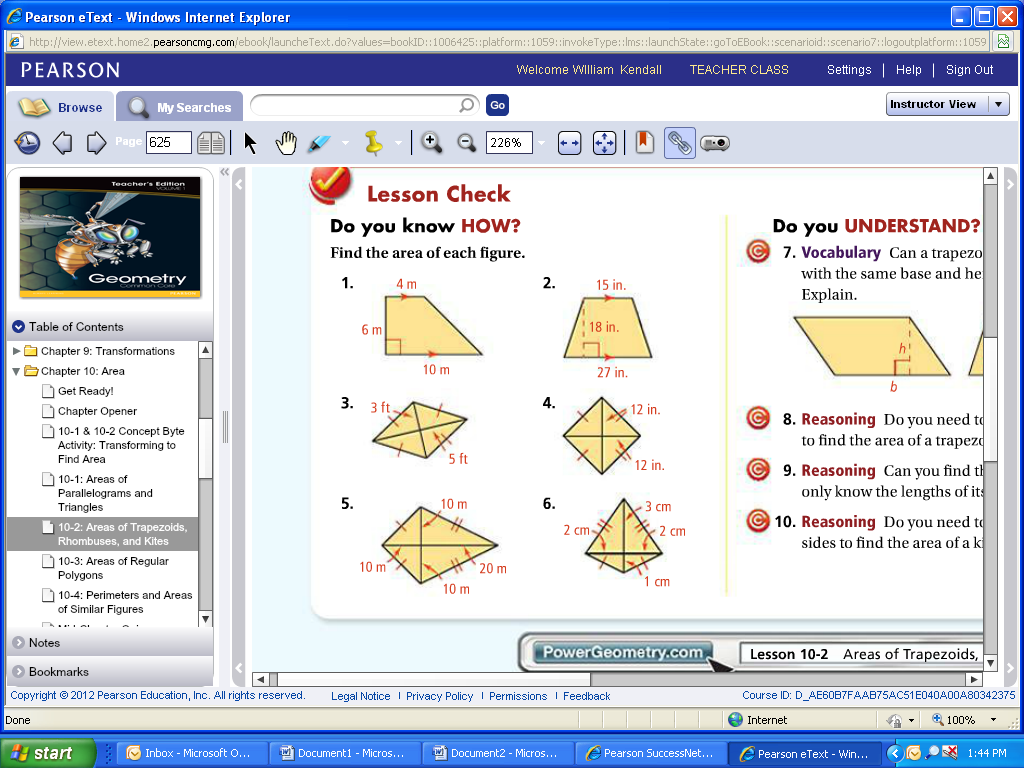
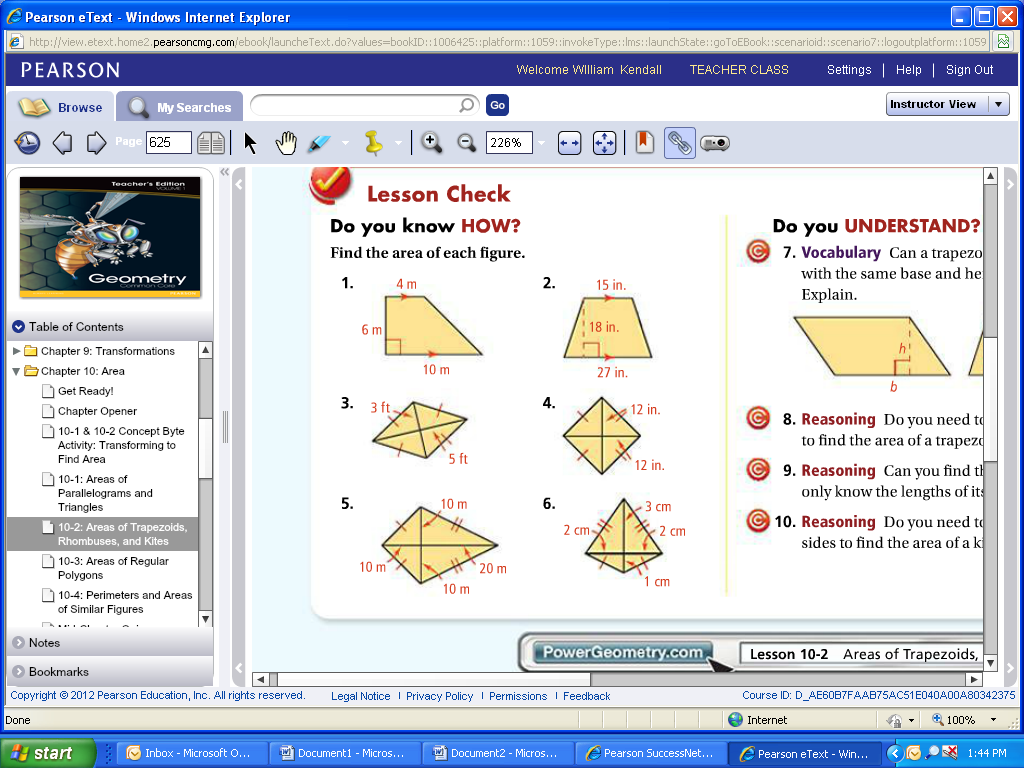
Find the area of each rhombus.

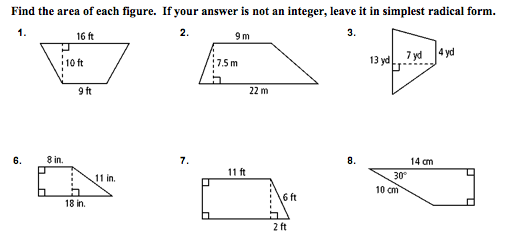


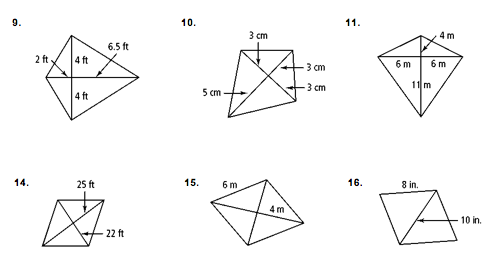
Practice:

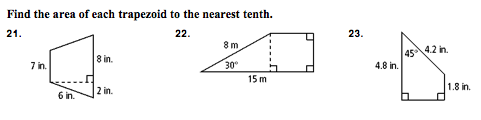
Find the area of each figure.





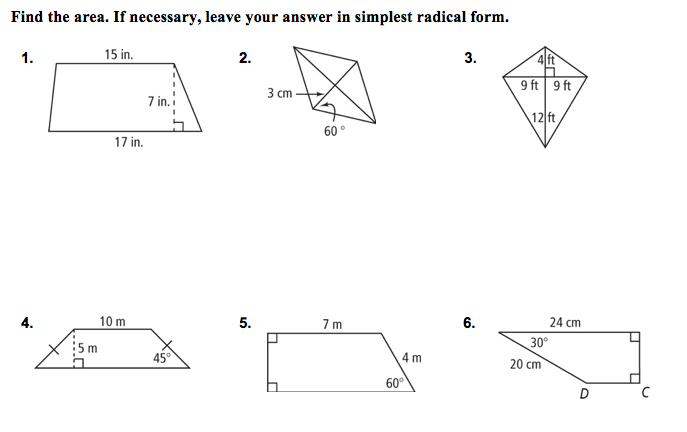
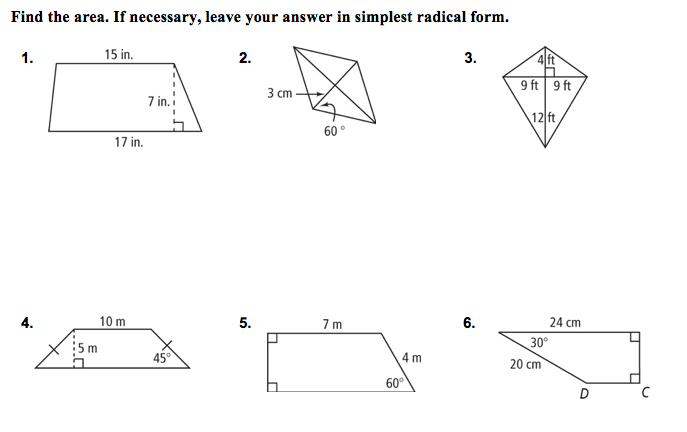






**Composite Figures**

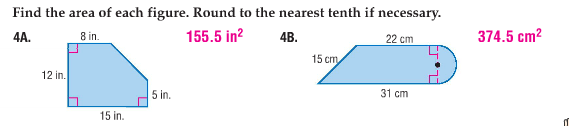
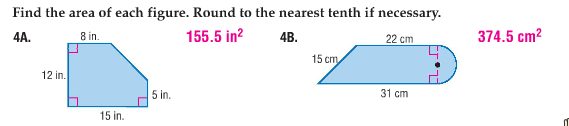
Warm-Up:

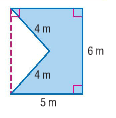
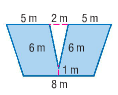


Objectives: 1.

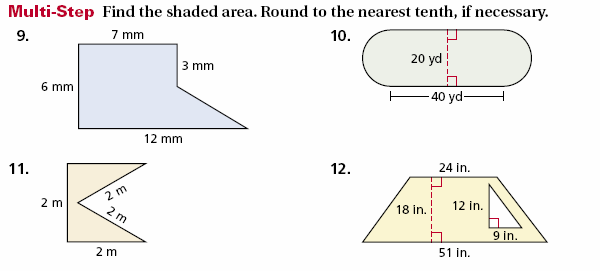
Class Notes:

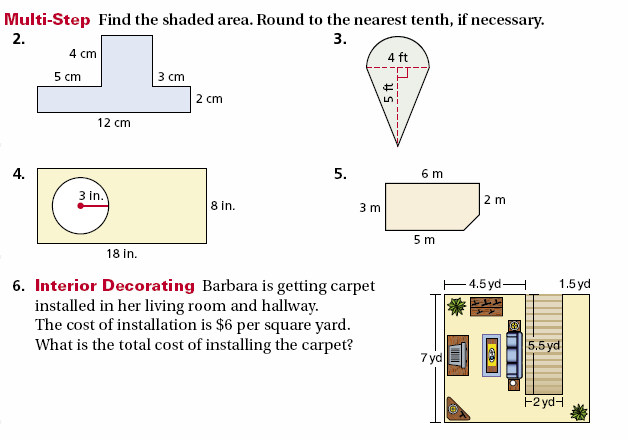
Find the area of each figure to the nearest tenth.

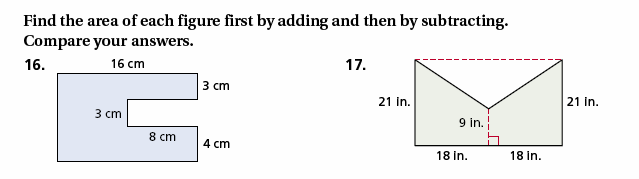
 

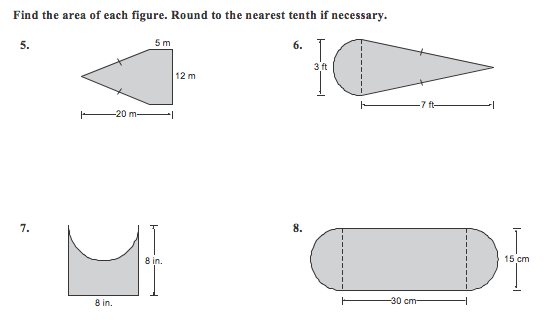
Practice:

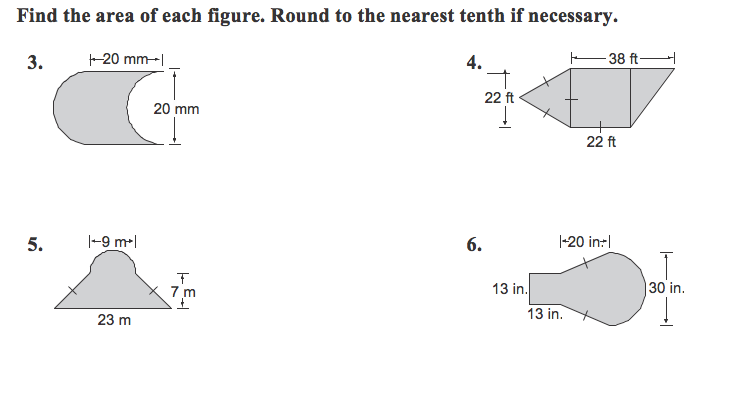
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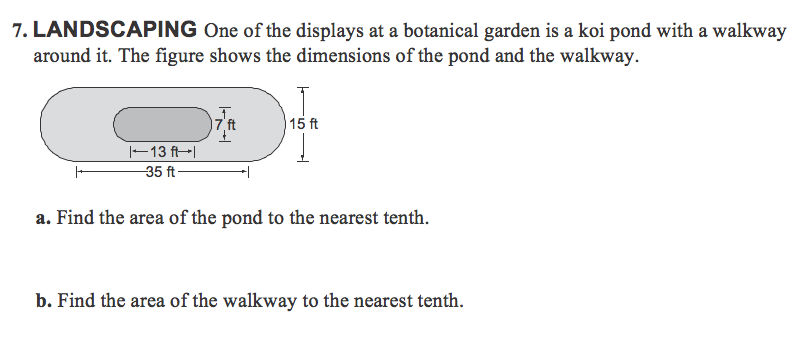


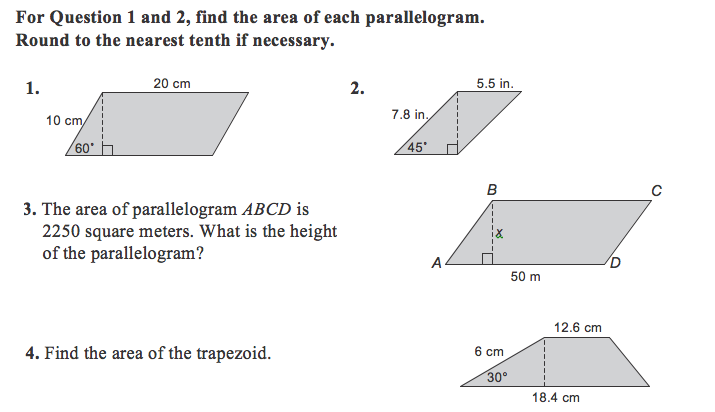
Find the area.

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