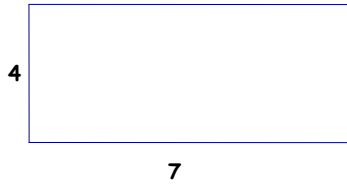


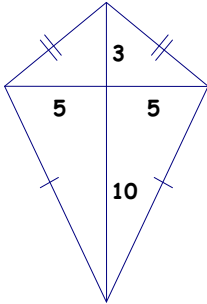
Area of Quadrilaterals

~ 1 ~

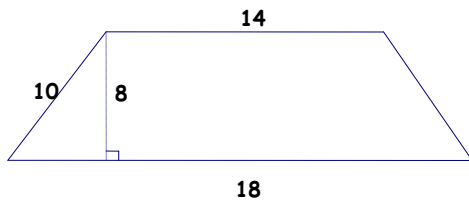
1. What is the area of the rectangle?



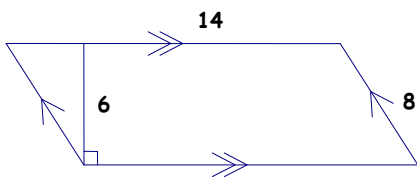
2. What is the area of the figure?



3. What is the area of the trapezoid?



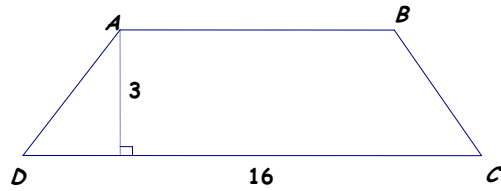
4. What is the area of the figure?



5. The area of a parallelogram is 24 in^2 . If the base has a length of 8 in, what is the height in inches?

- A. 3 B. 4 C. 5 D. 6

6. The area of the trapezoid shown is 39 units².

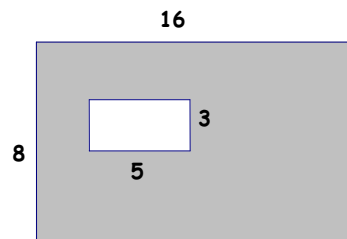


What is the length of \overline{AB} ?

- A. 10 B. 13 C. 15 D. 48

7. John must lay carpet in a rectangular room that is 10 ft wide and 14 ft long. How many square feet of carpet will it take?

8. Find the area of the shaded region.



9. **Given:** $ABCD$ is a trapezoid as shown.
 $ABCD \cong BAEF$.

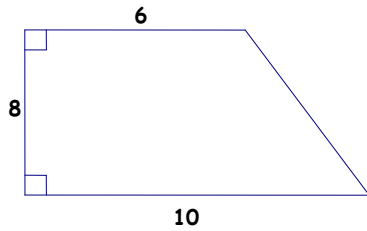
Prove: The area of $ABCD$ is

$$\frac{1}{2}h(b_1 + b_2).$$

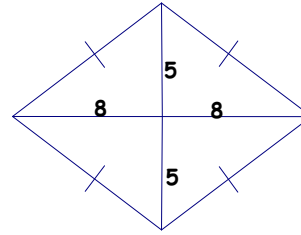
Area of Quadrilaterals

~ 2 ~

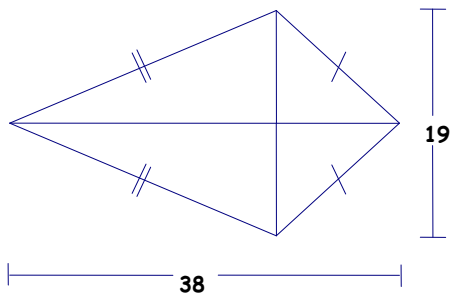
10. Find the area of the polygon.



15. Find the area of the polygon.



11. Find the area of the polygon.



12. Jessica wants to tile a room with 2 ft by 2 ft tiles. If the room is 18 ft by 22 ft, what is the minimum amount of tiles she will need?

13. Sue has a rectangular pool that is 15 ft by 20 ft there is a cement walkway around the pool that is 2 ft wide. What is the area of the walkway?

14. The area of a rectangle is 20 units². If it has a height of 5 units, what is the width?