ALBERT

Name _____ Date _____

Area of Composite Figures Worksheet

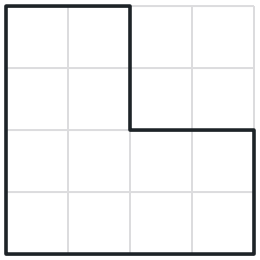
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> Recognize area as additive. Find areas of rectilinear figures by decomposing them into non-overlapping rectangles and adding the areas of the non-overlapping parts, applying this technique to solve real world problems.

Practice

Builds the skill step by step.

1. Each small square is 1 square unit. Count only the squares inside the dark outline, or split the figure into rectangles. What is its area?



2. How can you find the area of an L-shaped figure?

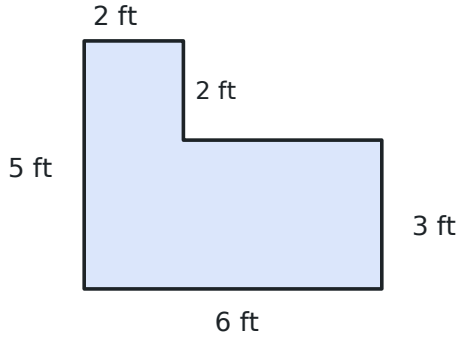
   A. Multiply all the side lengths

   B. Split it into two rectangles and add their areas

   C. Multiply the two longest sides

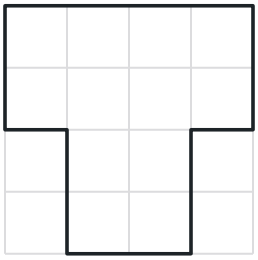
   D. Add all the side lengths

3. All corners are right angles. A side without a label can be found from the other sides. Split the figure into rectangles. What is its area?



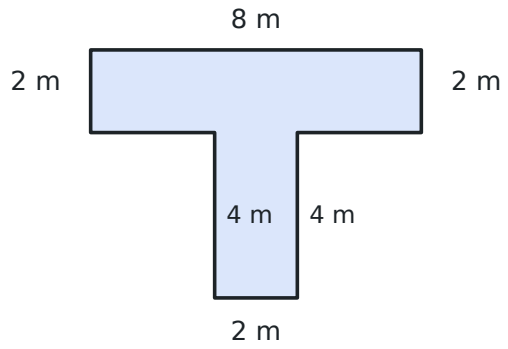
4. A figure is made of a 3-by-4 rectangle and a 2-by-2 square that don't overlap. What is its area?

5. Each small square is 1 square unit. Count only the squares inside the dark outline, or split the figure into rectangles. What is its area?

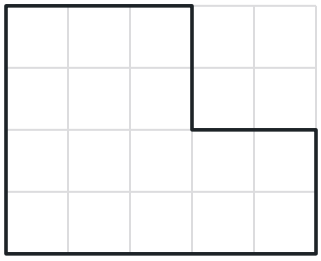


6. A figure is made of a 5-by-2 rectangle and a 3-by-3 square that don't overlap. What is its area?

7. All corners are right angles. A side without a label can be found from the other sides. Split the figure into rectangles. What is its area?



8. Each small square is 1 square unit. Count only the squares inside the dark outline, or split the figure into rectangles. What is its area?



9. Ivy splits an L-shaped figure into a 4-by-3 rectangle and a 2-by-5 rectangle. What is the area of the figure?

   A. 10 square units

   B. 12 square units

   C. 22 square units

   D. 14 square units

10. A garden is made of a 6-by-4 rectangle and a 3-by-2 rectangle that don't overlap. What is the area of the garden?

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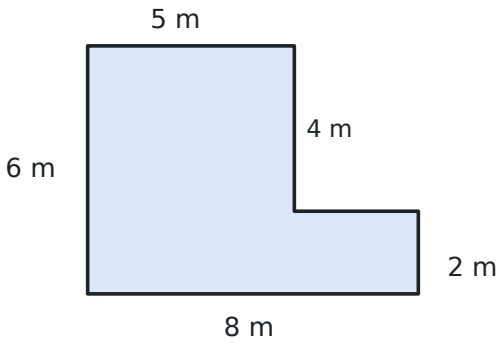
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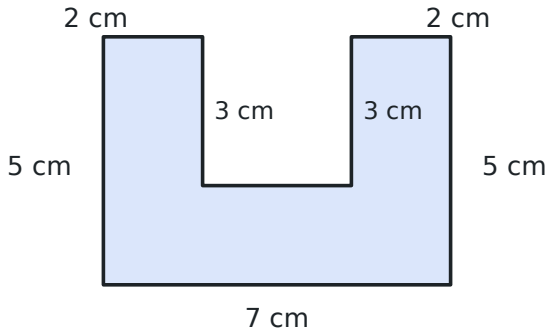
On Level

Grade-level practice.

1. All corners are right angles. A side without a label can be found from the other sides. Split the figure into rectangles. What is its area?

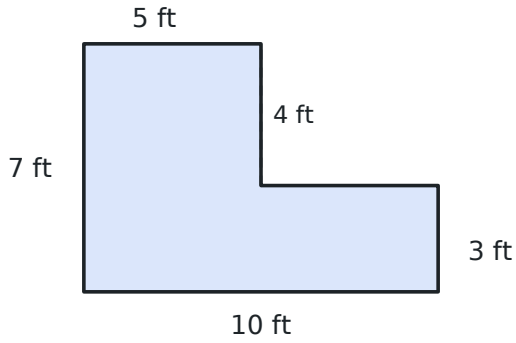


2. All corners are right angles. A side without a label can be found from the other sides. Split the figure into rectangles. What is its area?



3. An L-shaped room is made of two rectangles. One is 8 feet by 5 feet. The other is 4 feet by 3 feet. How many square feet of carpet cover the whole floor?

4. All corners are right angles. A side without a label can be found from the other sides. Split the figure into rectangles. What is its area?



5. An L-shaped figure is a 6-by-3 rectangle with a 2-by-2 square on top. Max multiplies its two longest sides, 6 and 5, and gets 30. What is the real area?

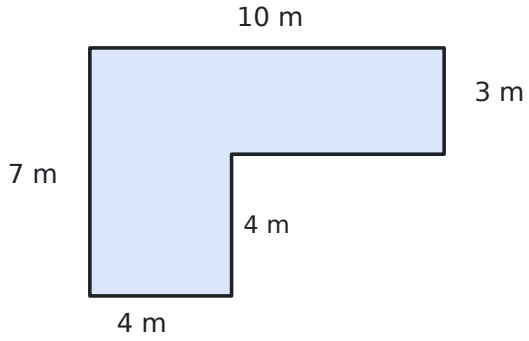
   A. 22 square units

   B. 30 square units

   C. 25 square units

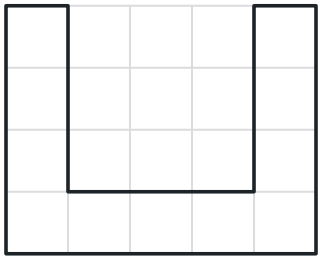
   D. 18 square units

6. All corners are right angles. A side without a label can be found from the other sides. Split the figure into rectangles. What is its area?



7. A patio is a 7-by-4 rectangle with a 2-by-2 square added on one side. What is the area of the patio?

8. Each small square is 1 square unit. Count only the squares inside the dark outline, or split the figure into rectangles. What is its area?



9. A figure is made of a 9-by-2 rectangle and a 4-by-5 rectangle that don't overlap. What is its area?

10. An L-shaped figure is a 6-by-3 rectangle with a 2-by-2 square on top of its left end. Which expression does NOT give its area?

    A. $2 \times 5 + 4 \times 3$

    B. $6 \times 5 - 4 \times 2$

    C. $6 \times 3 + 2 \times 2$

    D. 6×5

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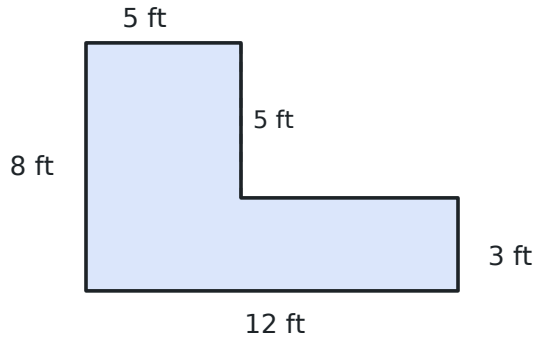
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Challenge

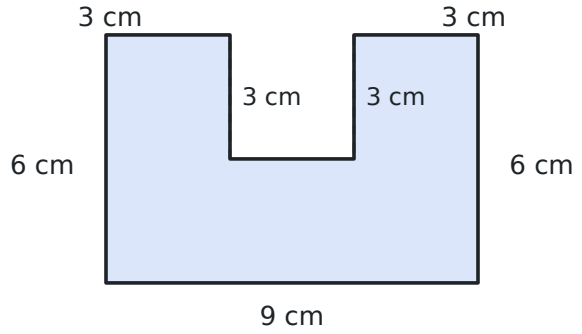
Multi-step and word problems that stretch it.

1. All corners are right angles. A side without a label can be found from the other sides. Split the figure into rectangles. What is its area?



2. A rectangular yard is 9 meters by 7 meters. A shed that is 3 meters by 2 meters sits in one corner. How much of the yard is not under the shed?

3. All corners are right angles. A side without a label can be found from the other sides. Split the figure into rectangles. What is its area?



4. A floor is made of a 6-by-5 rectangle and a 4-by-3 rectangle, in feet. Carpet comes in pieces that each cover 6 square feet. How many pieces cover the floor exactly?

5. Ana and Ben split the same L-shaped figure in different ways. Ana gets 15 + 8. Ben gets 12 + 11. Who is right?

   A. Both of them, because the area is the same either way

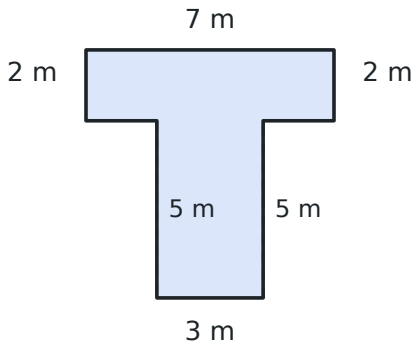
   B. Only Ana

   C. Only Ben

   D. Neither of them

6. A figure is made of a 4-by-4 square, a 2-by-6 rectangle and a 3-by-1 rectangle that don't overlap. What is its area?

7. All corners are right angles. A side without a label can be found from the other sides. Split the figure into rectangles. What is its area?



8. An L-shaped garden has an area of 40 square meters. It is made of a 6-by-5 rectangle and another rectangle that is 2 meters wide. How long is the other rectangle?

9. A park has an 8-by-6 meter playground joined to a 5-by-4 meter picnic area. A 2-by-2 meter sandbox sits inside the playground. How much of the playground and picnic area is not sandbox?

10. Figure A is a 5-by-4 rectangle with a 2-by-3 rectangle attached. Figure B is a 6-by-3 rectangle with a 3-by-3 square attached. Which is true?

    A. They have the same area.

    B. Figure B is bigger by 3 square units.

    C. Figure A is bigger by 1 square unit.

    D. Figure B is bigger by 1 square unit.