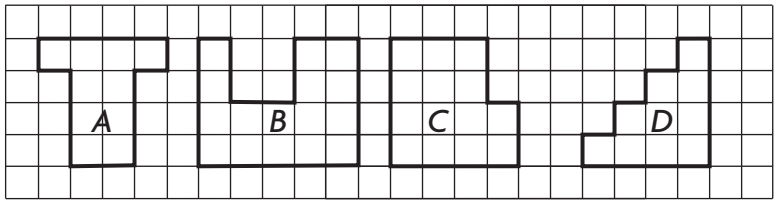
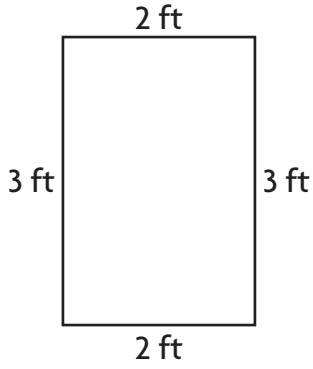
1. Find the perimeter of each figure on the grid. Identify the figures that have a perimeter of 16 units. Mark all that apply.



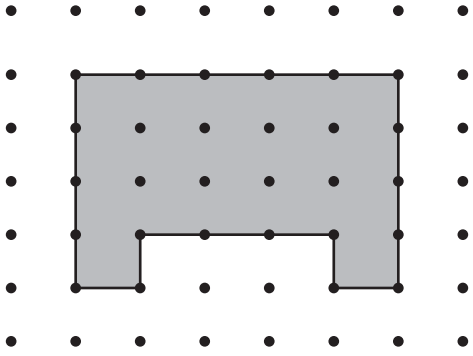
Ⓐ Ⓑ Ⓒ Ⓓ

2. Mr. Howard is putting wood trim around his window. How many feet of wood trim does Mr. Howard need for the perimeter of the window?



_____ feet

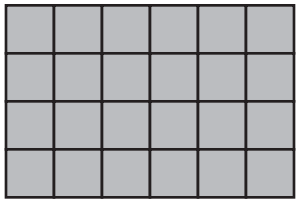
3. Greg drew this figure on dot paper. What is the area of the figure?



_____ square units

GO ON

4. Brady is placing square tiles on the floor of the kitchen. Each unit square is 1 square foot.



Which equations can Brady use to find the area of the kitchen floor? Mark all that apply.

Ⓐ $4 \times 6 = 24$

Ⓑ $4 + 4 + 4 + 4 + 4 = 20$

Ⓒ $4 + 6 + 4 + 6 = 20$

Ⓓ $6 + 6 + 6 + 6 = 24$

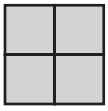
Ⓔ $4 \times 5 = 20$

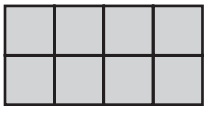
Ⓕ $6 \times 4 = 24$

5. Glenda used square tiles to make a rectangle. The rectangle has a perimeter of 8 units and an area of 4 square units. Which could be Glenda's rectangle?

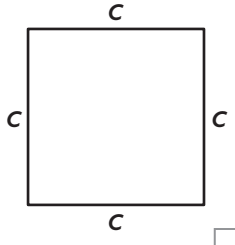
Ⓐ 

Ⓒ 

Ⓑ 

Ⓓ 

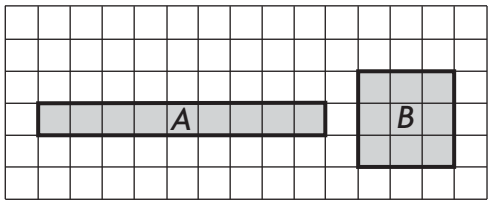
6. Jill uses a ruler to draw a square. The perimeter of the square is 20 inches. Select a number to complete the sentence.



The square has a side length of [4 / 5 / 8 / 10] inches.

GO ON

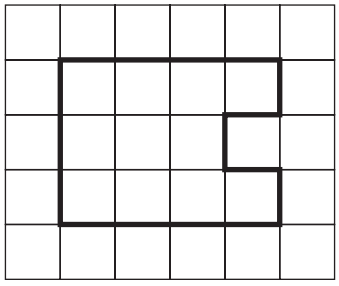
7. Rosa drew two rectangles on grid paper. Circle the words that make the sentence true.



Rectangle *A* has an area that is [less than / the same as / greater than] the area of Rectangle *B*,

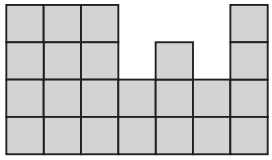
and a perimeter that is [less than / the same as / greater than] the perimeter of Rectangle *B*.

8. Ryan drew this figure on grid paper. What is the perimeter of the figure?



_____ units

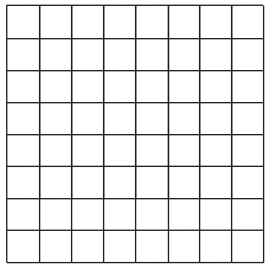
9. What is the area of the figure shown? Each unit square is 1 square foot.



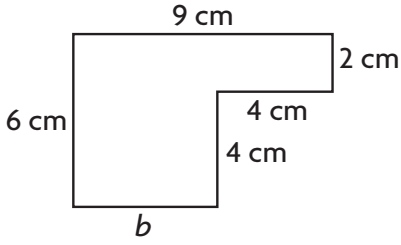
_____ square feet

GO ON

10. Ella drew a rectangle that was 3 units wide and 4 units long. Draw a different rectangle that has the same perimeter but a different area.



11. Kendra glued ribbon around the outside border of the shape shown below. She used 30 centimeters of ribbon for the border. What is the unknown side length? Show your work.



_____ centimeters

12. A carpenter made two tables. The first table is 4 feet wide and 10 feet long. The second table is half as long as the first table. The area of the second table is one fourth the area of the first table.

For numbers 12a–12d, select True or False.

12a. The width of the second table is 2 feet. ○ True ○ False

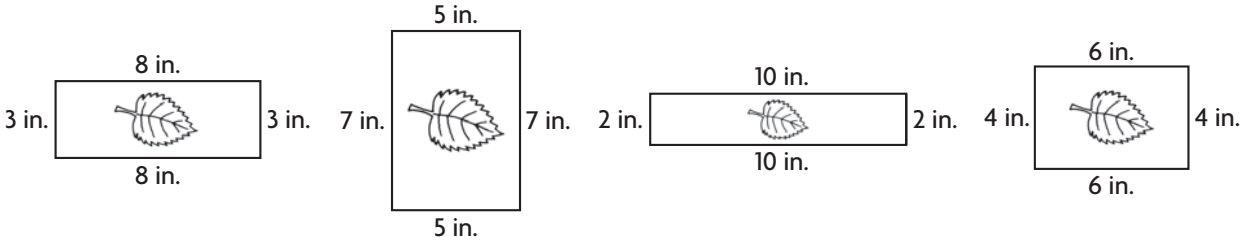
12b. The area of the second table is 10 square feet. ○ True ○ False

12c. The length of the second table is 8 feet. ○ True ○ False

12d. The area of the first table is 28 square feet. ○ True ○ False

GO ON

13. Fiona bought some pictures. Each picture had a perimeter of 24 inches. Which could be one of the pictures Fiona bought? Mark all that apply.

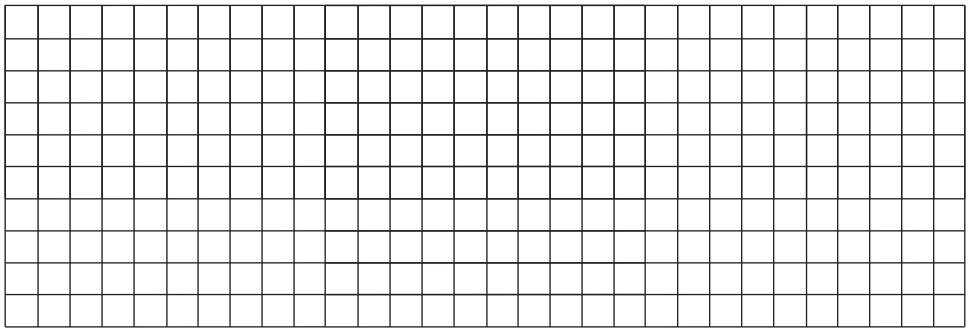


Ⓐ Ⓑ Ⓒ Ⓓ

14. Tasha wants to fence in two different rectangular pens for her chickens, each with an area of 36 square feet. She will buy fencing to build each pen.

Part A

Each unit square on the grid below is 1 square foot. Draw two possible pens. Label each with a letter.



Part B

Which of the pens will take more fencing to make? Explain how you know.

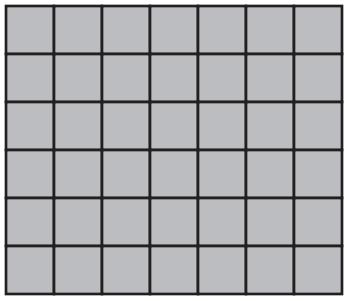
_____

_____

_____

GO ON

15. Simon draws a sketch of the floor of his tree house on grid paper. Each unit square is 1 square foot. Write and solve a multiplication equation that can be used to find the area of the floor in square feet.



_____ square feet

16. Rachel uses grid paper to plan a mural to paint at her school. The design will be made of two connected rectangles. The larger rectangle will have an area between 35 square feet and 45 square feet. The smaller rectangle will have an area between 10 square feet and 20 square feet. Draw and label a diagram to show what Rachel could plan. Explain how to find the total area.