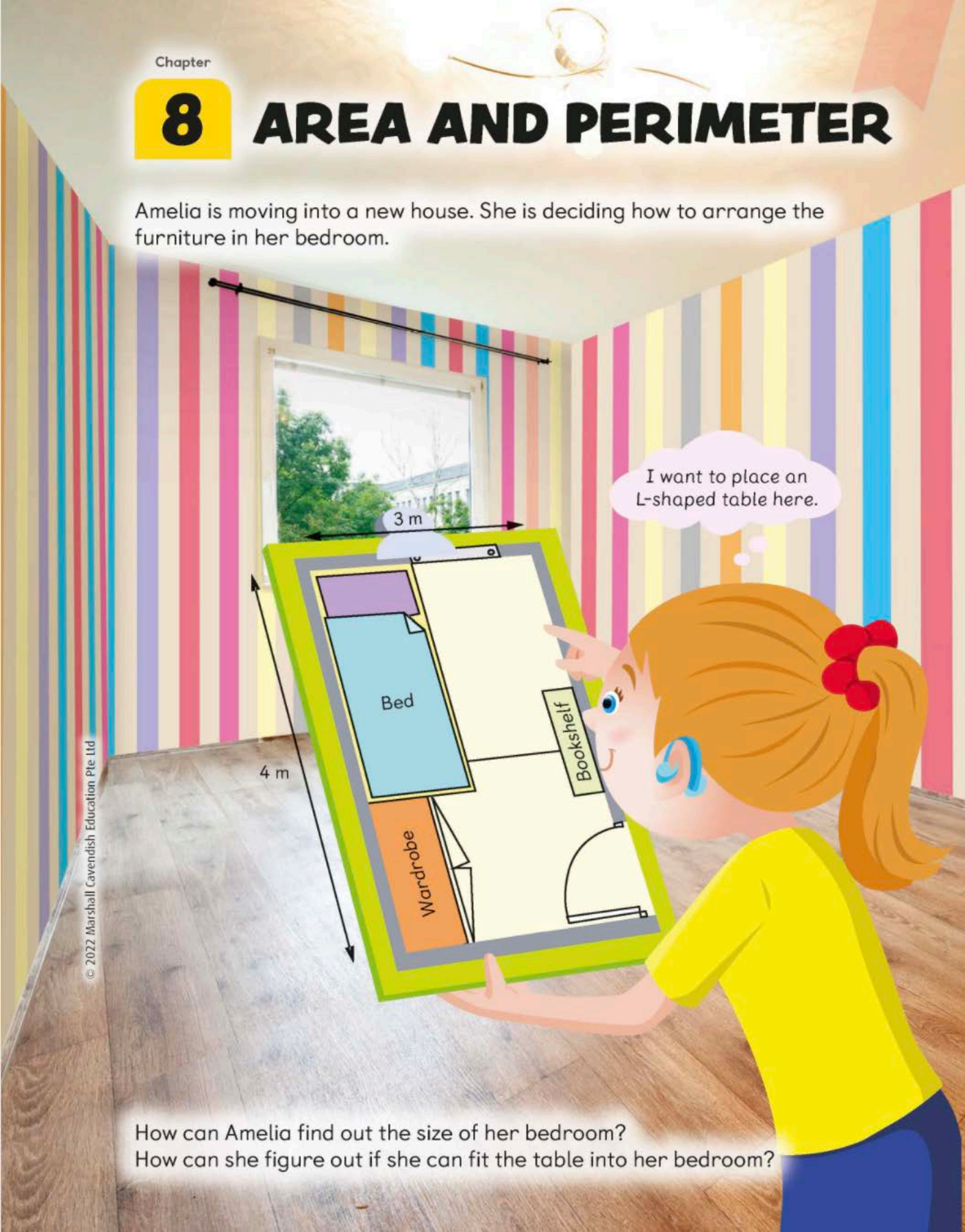
Chapter

8 AREA AND PERIMETER

Amelia is moving into a new house. She is deciding how to arrange the furniture in her bedroom.



How can Amelia find out the size of her bedroom?
How can she figure out if she can fit the table into her bedroom?

Name: _____ Date: _____

Recall

1. What is the area of Figure A?

   (A) 12 square in. (B) 14 square in.

   (C) 16 square in. (D) 18 square in.

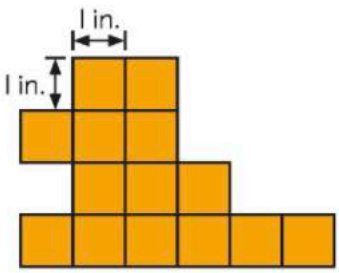


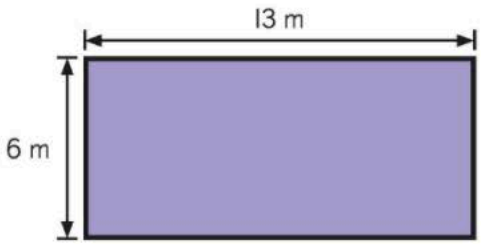
Figure A

2. What is the perimeter of Figure A?

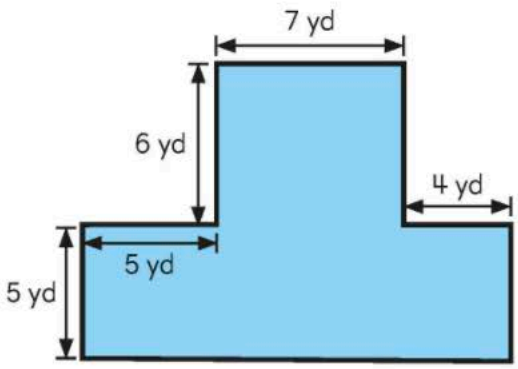
   (A) 26 inches (B) 24 inches

   (C) 22 inches (D) 20 inches

3. Find the area and perimeter of the rectangular garden.



4. Divide the figure into two rectangles. Then find the area of the figure.



I can...

- ☐ find the area and perimeter of figures made up of squares.
- ☐ find the area and perimeter of rectangles.
- ☐ find the area of composite figures.

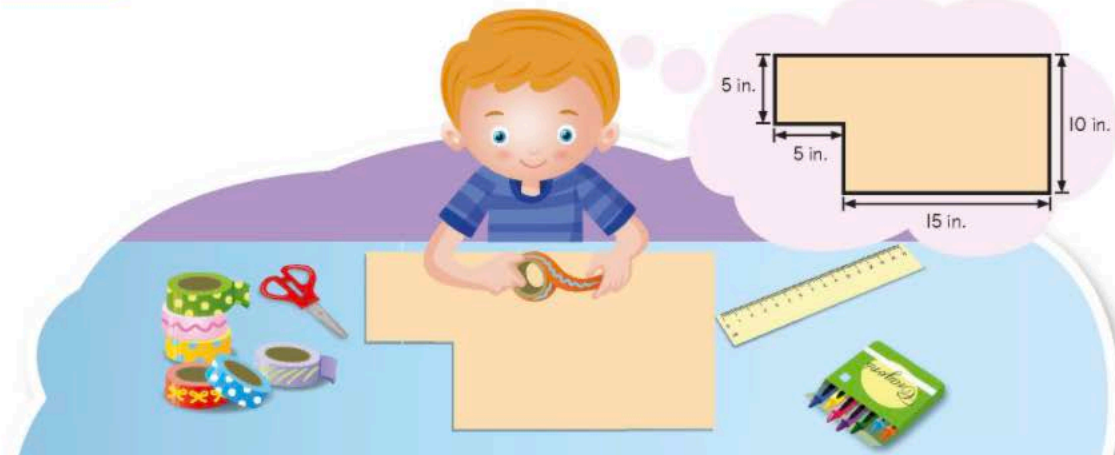
Practice On Your Own

1. Mrs. Garcia placed some brownies in a rectangular tray. The perimeter of the tray is 120 centimeters. Its width is 20 centimeters. What is the length of the tray?

2. The perimeter of a square field is 1,040 yards. What is the length of one side of the field?

Name: _____ Date: _____

8B Composite Figures



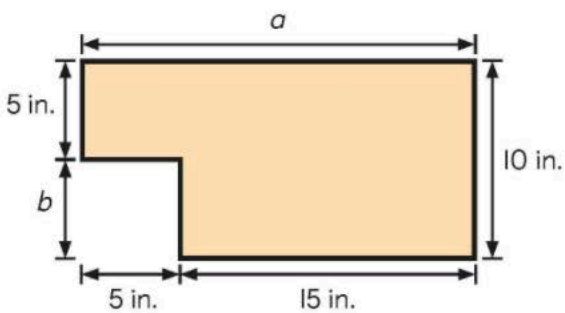
Liam cuts out cardboard as shown. He wants to decorate the sides of the cardboard with sparkly tape.

(a) What is the length of tape Liam needs?

(b) What is the area of the cardboard?

Learn

(a)



Unknown length a = 15 + 5

= _____ in.

Unknown length b = 10 − 5

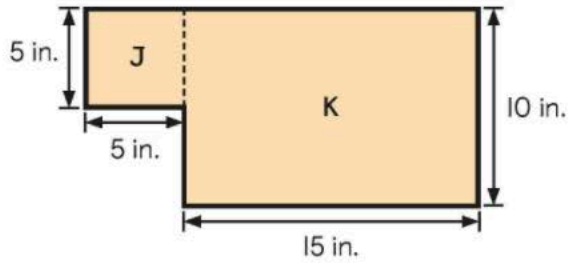
= _____ in.

Perimeter = _____ + _____ + _____ + _____ + _____ + _____

= _____ in.

The length of tape Liam needs is _____ inches.

(b) **Method I:**



Area of cardboard = Area of J + Area of K

Area of J = _____ ○ _____

= _____ in^2

Area of K = _____ ○ _____

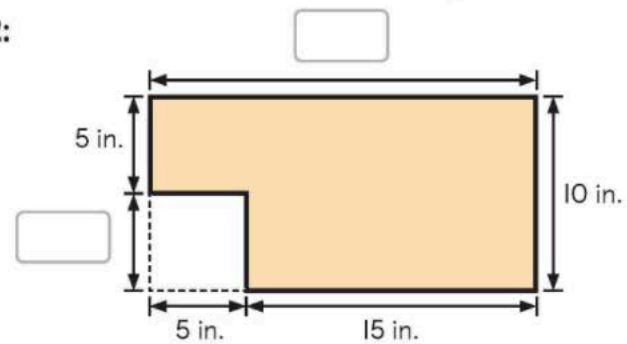
= _____ in^2

Area of cardboard = _____ ○ _____

= _____ in^2

The area of the cardboard is _____ square inches.

Method 2:



Area of the rectangle = _____ × 10

= _____ in^2

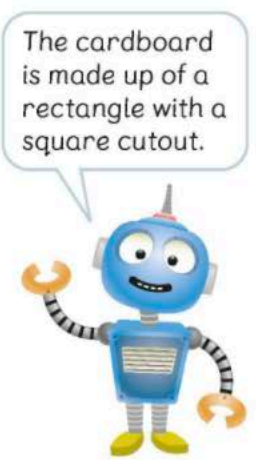
Area of square cutout = _____ ○ _____

= _____ in^2

Area of cardboard = _____ ○ _____

= _____ in^2

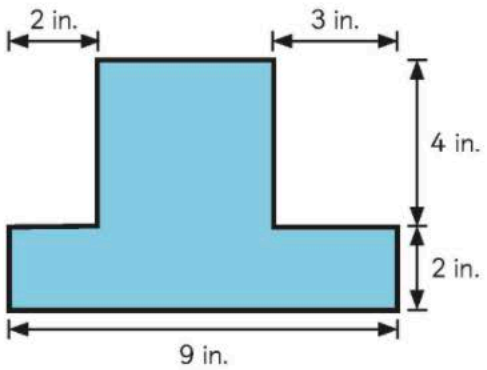
The area of the cardboard is _____ square inches.



Practice On Your Own

1. Find the area and perimeter of each figure. All sides meet at right angles.

(a)



(b)