A decorative graphic on the left side of the slide. It features a blue parallelogram and a light green parallelogram, both tilted at an angle. The blue shape is in the foreground, and the green shape is partially behind it. The background of the entire slide is dark blue with faint, lighter blue diagonal stripes.

# Measuring Area and Perimeter



# What is area?

When we measure **area**, we figure out how much space is **inside** a shape.



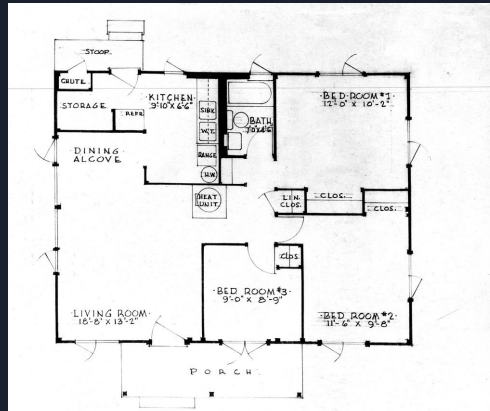
# Examples of Area:



How big is this rug?



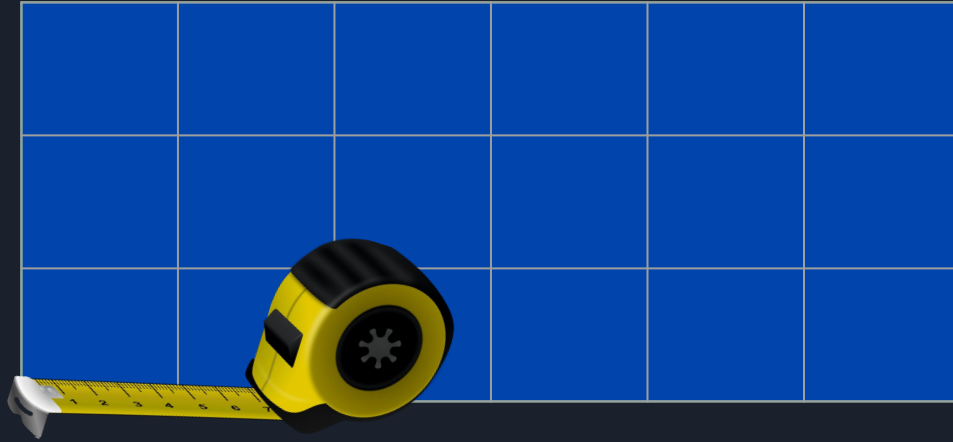
How many tiles do I need for my bathroom?



How big is my house?

# How do we measure the area of a rectangle?

First measure the bottom edge to find the **base**.



---

The base of this rectangle is 6 inches.

# How do we measure the area of a rectangle?

Next measure one side to find the **height** of the rectangle.

The  
height  
of this  
rectangle  
is 3 inches.



# How do we measure the area of a rectangle?

Now to find the area, we multiply the **base** times the **height**. ( $b \times h = a$ )

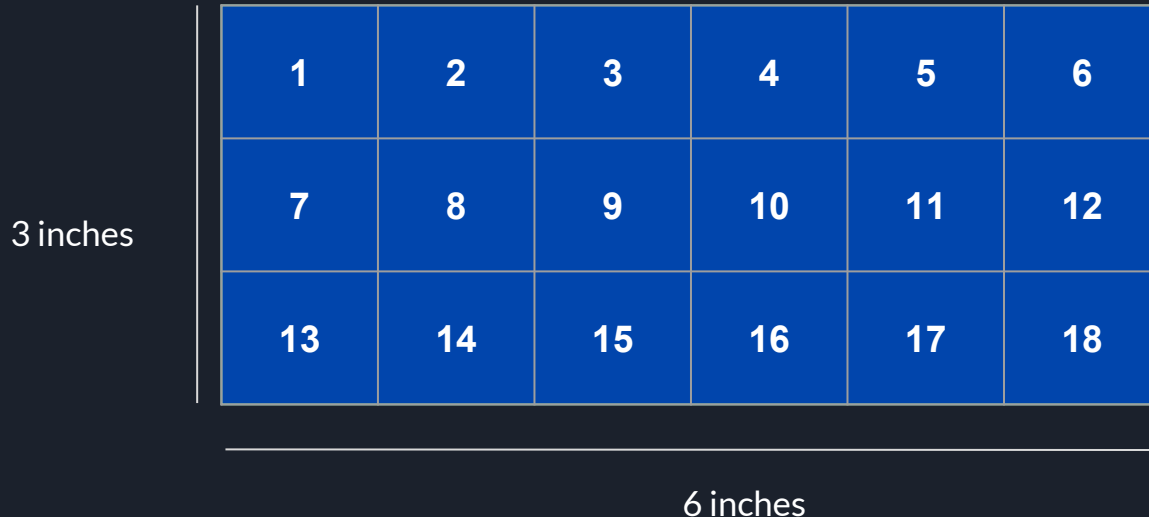





# How do we measure the area of a rectangle?

$$6 \times 3 = 18 \text{ square inches}$$

We can see that there are 18 squares covering this rectangle.



Let's practice a few.



A man with brown hair, wearing a blue and white striped shirt over a white t-shirt and blue jeans, is smiling and holding a white sign. The sign has the formula  $A = b \times h$  written on it in blue ink.

$$A = b \times h$$

**B**

3

6

**C**

2

3

**A**

7

**D**

8

1


**E**

6

4



Let's check our answers.



A man with brown hair, wearing a blue and white striped shirt over a white t-shirt and blue jeans, is smiling and holding a white sign. The sign has the formula  $A = b \times h$  written on it in blue ink.

$$A = b \times h$$

6 12

2

9

3

21

7

8

8

24

6

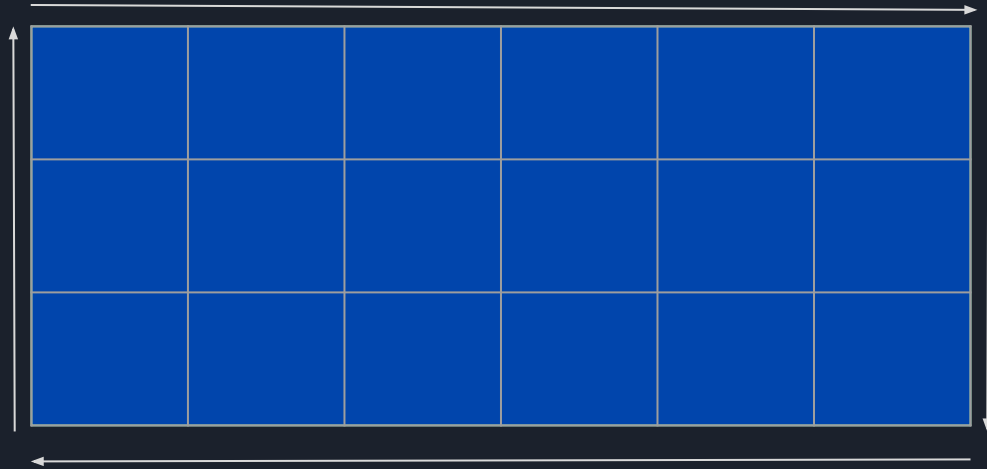
4

1



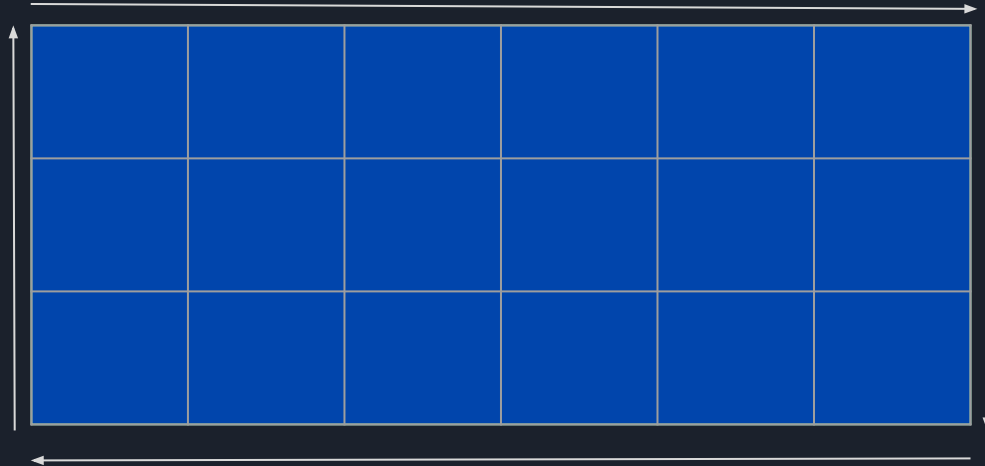
# What is perimeter?

When we measure **perimeter**, we figure out how far it is around the **outside** of a shape.



# Examples of perimeter:

If these kids walked all the way around this pool, how far did they walk?



# Examples of perimeter:



How much border is needed for this bulletin board?



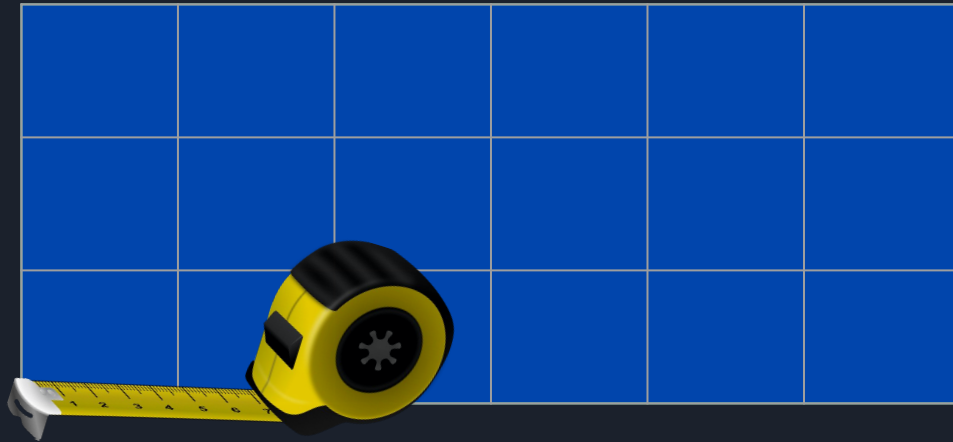
How much wood do we need for each garden?

# How do we measure the perimeter of a rectangle?

First measure the bottom edge to find the **base**. The top will be the same length.

The top of this rectangle is also 6 inches.

---



---

The base of this rectangle is 6 inches.

# How do we measure the area of a rectangle?

Next measure one side to find the **height** of the rectangle. The other side will be the same.

The  
height  
of this  
rectangle  
is 3 inches.



# How do we measure the area of a rectangle?

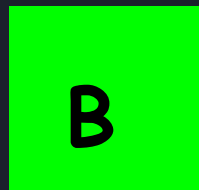
Now to find the perimeter, we add up all the **sides**.

$$3 + 3 + 6 + 6 = 18 \text{ inches}$$

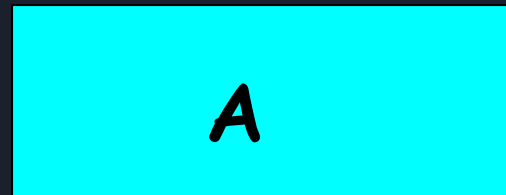


Let's practice a few.

Add up  
all sides.



3



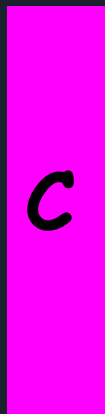
3

7



8

1



6

2



6

4



Let's check our answers.

Add up  
all sides.

6 16

2

12

3

3

20

7

18

8

1

20

4

6