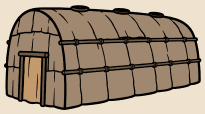
Name _____ Date _____



Longhouse Measuring

Find each longhouse's length, perimeter and area.



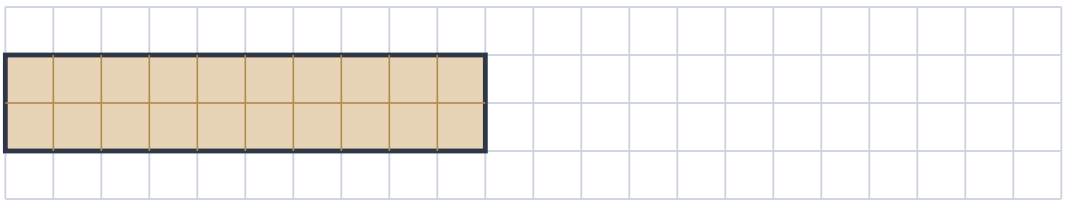
The Haudenosaunee call themselves the People of the Longhouse. A longhouse was about 20 feet wide and 40 to 200 feet long, with elm bark over a frame of young trees. On these grids, each square is 10 feet by 10 feet: 100 square feet.

1. Example



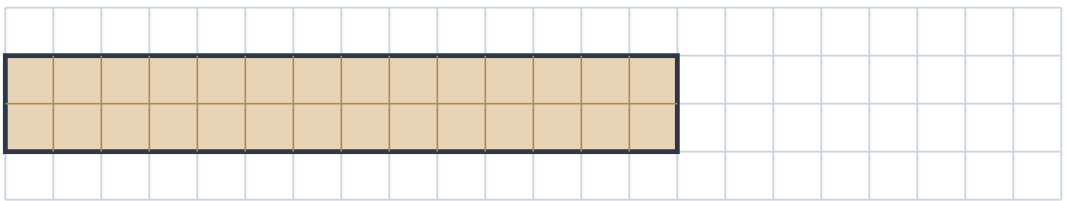
Length: 60 feet Perimeter: 160 feet Area: 1,200 square feet

2.



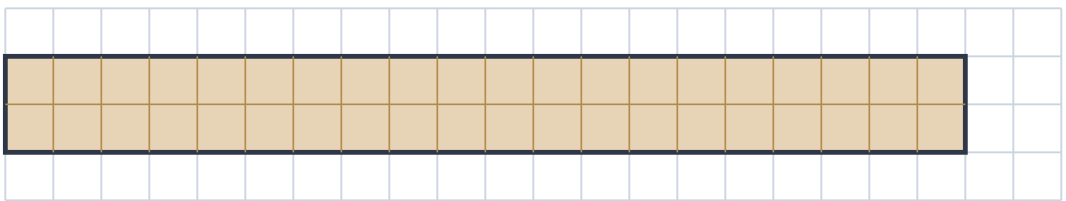
Length: _____ feet Perimeter: _____ feet Area: _____ square feet

3.



Length: _____ feet Perimeter: _____ feet Area: _____ square feet

4.



Length: _____ feet Perimeter: _____ feet Area: _____ square feet

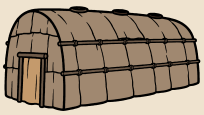
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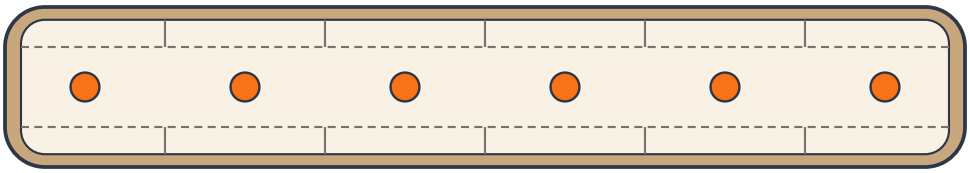
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A 120-foot longhouse from above: 6 fires, 12 families



Length (feet)	Fires	Families
40	2	4
80	4	
100		
	8	16
200		20

1. A longhouse has **7** fires. How many families live in it?

$$7 \times 2 = 14$$

Example **14** families

2. **12** families share fires, **2** to a fire. How many fires?

_____ fires

3. A longhouse has **9** fires, one every **20** feet. How long is it?

_____ feet

4. How many more families live in a 200-foot longhouse than a 120-foot one?

_____ more

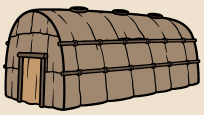
© 2026 Eggroll Games

Name _____ Date _____



Longhouse Measuring

Change the units. Then solve.



1 yard = 3 feet. 1 foot = 12 inches.
The aisle down the middle of a longhouse was about 10 feet wide, and each family's space was about 20 feet long.

Feet	Yards
60	20
90	
	40
150	
	60
210	

Feet	Inches
1	12
2	
	60
10	
	240
8	

1. The aisle was about **10** feet wide. How many inches is that?

$$10 \times 12 = 120$$

Example

120 inches

2. A longhouse is **60** feet long. How many yards long is it?

_____ yards

3. A longhouse is **20** feet wide. Is that more or less than **7** yards? By how many feet?

less, by _____ foot

4. Suppose a strip of elm bark is **6** feet long. How many inches long is it?

_____ inches

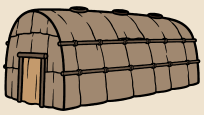
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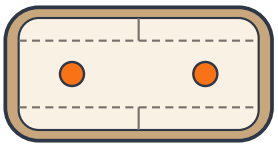


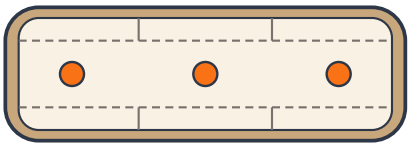
Longhouse Measuring

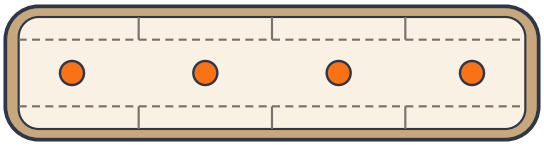
A longhouse grows. Find the pattern.



When a family grew, its longhouse was made longer. In these plans a longhouse starts at **40** feet with **2** fires. Each new section adds **20** feet, **1** fire and **2** families.

0 added:  **40** feet

1 added:  **60** feet

2 added:  **80** feet

Sections added	Length (feet)	Fires	Families
0	40	2	4
1		3	
2	80		
4			12
5			
7			

1. How many sections must be added to a 40-foot longhouse to make it 200 feet long?

$$160 \div 20 = 8$$

Example

8 sections

2. A longhouse has room for **16** families. How long is it?

_____ feet

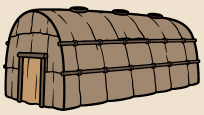
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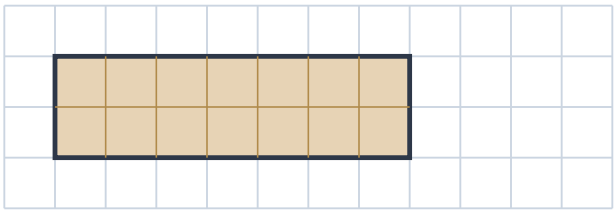
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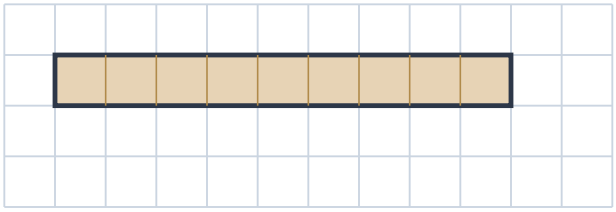


20 feet wide

70 feet long

Example

2. Scale: **1** square = **20** feet. How big is this longhouse?



_____ feet wide

_____ feet long

3. Scale: **1** square = **10** feet. Draw a longhouse **20** feet wide and **90** feet long.

Width in squares: _____

Length in squares: _____

4. Scale: **1** square = **20** feet. Draw a longhouse **20** feet wide and **160** feet long.

Width in squares: _____

Length in squares: _____

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Name _____ Date _____



Longhouse Measuring

Find each longhouse's length, perimeter and area.



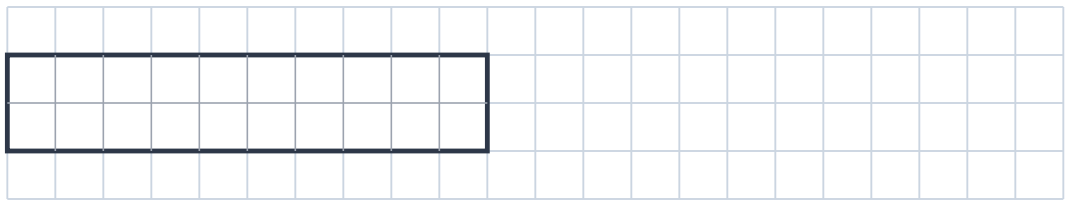
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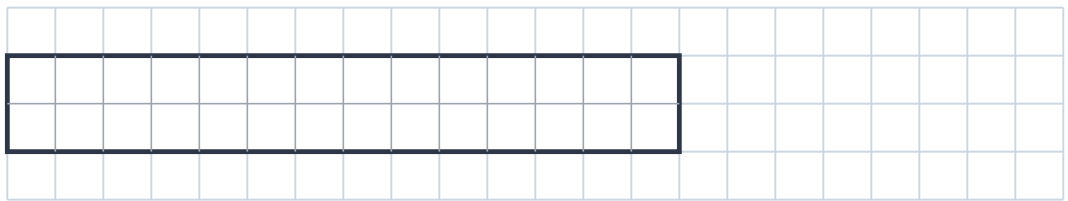
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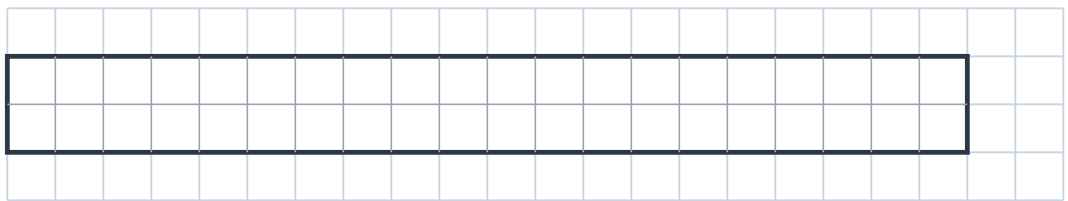
Length: _____ feet Perimeter: _____ feet Area: _____ square feet

3.



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4.



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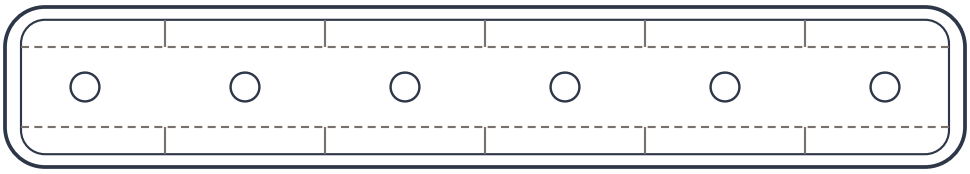
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A 120-foot longhouse from above: 6 fires, 12 families



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80	4	
100		
	8	16
200		20

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$$7 \times 2 = 14$$

Example **14** families

2. **12** families share fires, **2** to a fire. How many fires?

_____ fires

3. A longhouse has **9** fires, one every **20** feet. How long is it?

_____ feet

4. How many more families live in a 200-foot longhouse than a 120-foot one?

_____ more

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Name _____ Date _____



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Change the units. Then solve.



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The aisle down the middle of a longhouse was about 10 feet wide, and each family's space was about 20 feet long.

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90	
	40
150	
	60
210	

Feet	Inches
1	12
2	
	60
10	
	240
8	

1. The aisle was about **10** feet wide. How many inches is that?

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Example

120 inches

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_____ yards

3. A longhouse is **20** feet wide. Is that more or less than **7** yards? By how many feet?

less, by _____ foot

4. Suppose a strip of elm bark is **6** feet long. How many inches long is it?

_____ inches

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Name _____ Date _____



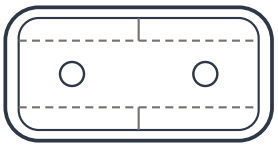
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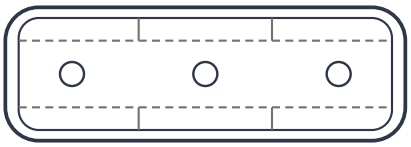
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0 added:



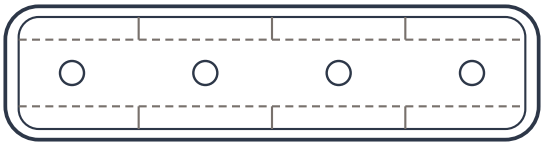
40 feet

1 added:



60 feet

2 added:



80 feet

Sections added	Length (feet)	Fires	Families
0	40	2	4
1		3	
2	80		
4			12
5			
7			

1. How many sections must be added to a 40-foot longhouse to make it **200** feet long?

$$160 \div 20 = 8$$

Example

8 sections

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_____ feet

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Name _____ Date _____



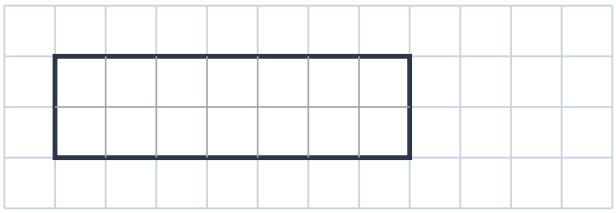
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1. Scale: **1** square = **10** feet. How big is this longhouse?



20 feet wide

70 feet long

Example

2. Scale: **1** square = **20** feet. How big is this longhouse?



_____ feet wide

_____ feet long

3. Scale: **1** square = **10** feet. Draw a longhouse **20** feet wide and **90** feet long.

Width in squares: _____

Length in squares: _____

4. Scale: **1** square = **20** feet. Draw a longhouse **20** feet wide and **160** feet long.

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Length in squares: _____

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Find each longhouse's length, perimeter and area.



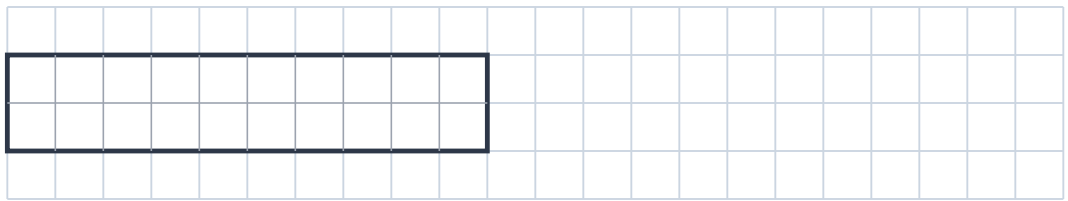
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1. Example



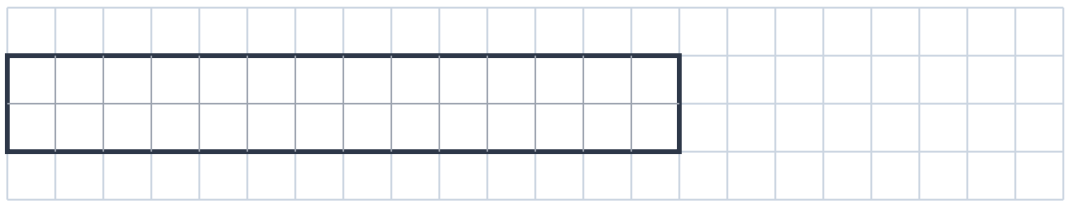
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2.



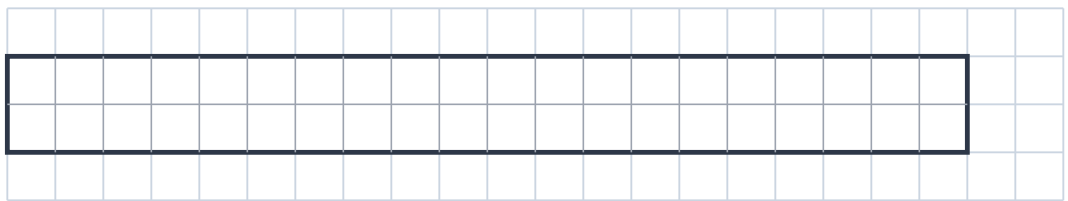
Length: **100** feet Perimeter: **240** feet Area: **2,000** square feet

3.



Length: **140** feet Perimeter: **320** feet Area: **2,800** square feet

4.



Length: **200** feet Perimeter: **440** feet Area: **4,000** square feet

ANIMAL MATH

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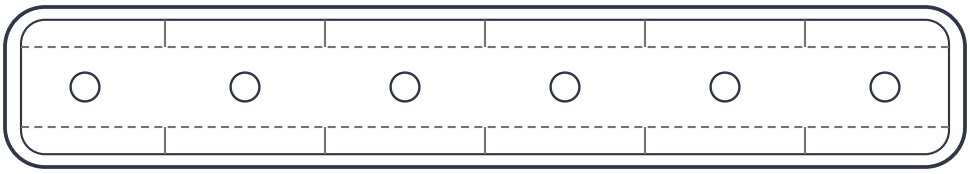
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100	5	10
160	8	16
200	10	20

1. A longhouse has **7** fires. How many families live in it?

$$7 \times 2 = 14$$

Example

14 families

2. **12** families share fires, **2** to a fire. How many fires?

$$12 \div 2 = 6$$

6 fires

3. A longhouse has **9** fires, one every **20** feet. How long is it?

$$9 \times 20 = 180$$

180 feet

4. How many more families live in a 200-foot longhouse than a 120-foot one?

$$20 - 12 = 8$$

8 more

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Longhouse Measuring

Change the units. Then solve.



1 yard = 3 feet. 1 foot = 12 inches.
The aisle down the middle of a longhouse was about 10 feet wide, and each family's space was about 20 feet long.

Feet	Yards
60	20
90	30
120	40
150	50
180	60
210	70

Feet	Inches
1	12
2	24
5	60
10	120
20	240
8	96

1. The aisle was about **10** feet wide. How many inches is that?

$10 \times 12 = 120$

Example

120 inches

2. A longhouse is **60** feet long. How many yards long is it?

$60 \div 3 = 20$

20 yards

3. A longhouse is **20** feet wide. Is that more or less than **7** yards? By how many feet?

$7 \times 3 = 21$

less, by **1** foot

4. Suppose a strip of elm bark is **6** feet long. How many inches long is it?

$6 \times 12 = 72$

72 inches

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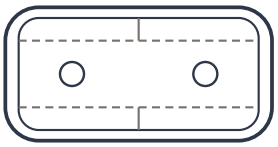
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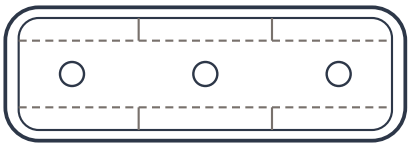
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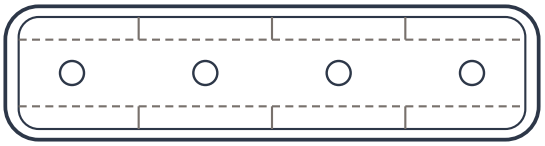
40 feet

1 added:



60 feet

2 added:



80 feet

Sections added	Length (feet)	Fires	Families
0	40	2	4
1	60	3	6
2	80	4	8
4	120	6	12
5	140	7	14
7	180	9	18

1. How many sections must be added to a 40-foot longhouse to make it 200 feet long?

$$160 \div 20 = 8$$

Example

8 sections

2. A longhouse has room for **16** families. How long is it?

$$8 \times 20 = 160$$

160 feet

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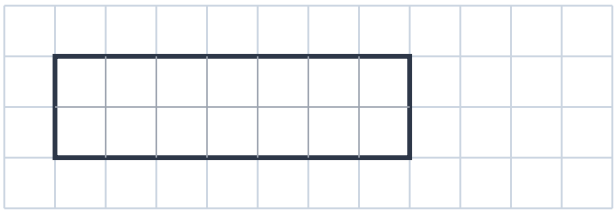
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1. Scale: **1** square = **10** feet. How big is this longhouse?



20 feet wide

70 feet long

Example

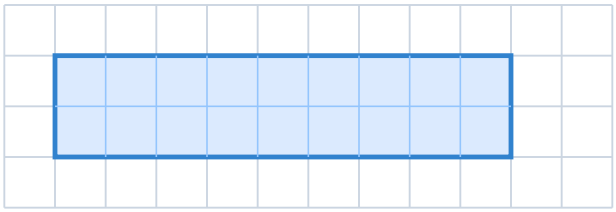
2. Scale: **1** square = **20** feet. How big is this longhouse?



20 feet wide

180 feet long

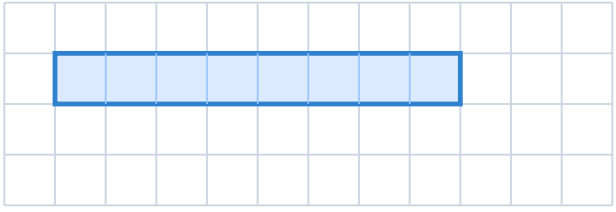
3. Scale: **1** square = **10** feet. Draw a longhouse **20** feet wide and **90** feet long.



Width in squares: **2**

Length in squares: **9**

4. Scale: **1** square = **20** feet. Draw a longhouse **20** feet wide and **160** feet long.



Width in squares: **1**

Length in squares: **8**

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