Name _____ Date _____



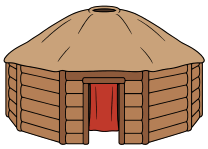
# Homes as Shapes

Look at each floor from above. Name its shape.



**Native nations build homes in many shapes. A floor plan shows a home's floor as if you were looking down from the sky.**

**1. A Diné (Navajo) hogan with eight sides**





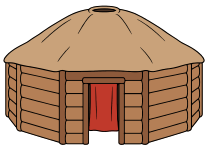
floor

Shape: **octagon**

Sides: **8**

Vertices: **8** Example

**2. A Diné hogan with six sides**





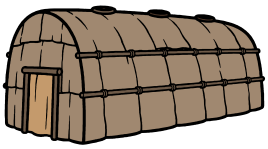
floor

Shape: _____

Sides: _____

Vertices: _____

**3. A Haudenosaunee longhouse**





floor

Shape: _____

Sides: _____

Vertices: _____

**4. An earth lodge of the Mandan, Hidatsa and Arikara**





floor

Shape: _____

Sides: _____

Vertices: _____

**5. A room in a pueblo**





floor

Shape: _____

Sides: _____

Vertices: _____

**6. A T-shaped doorway at Mesa Verde**





floor

Shape: _____

Sides: _____

Vertices: _____


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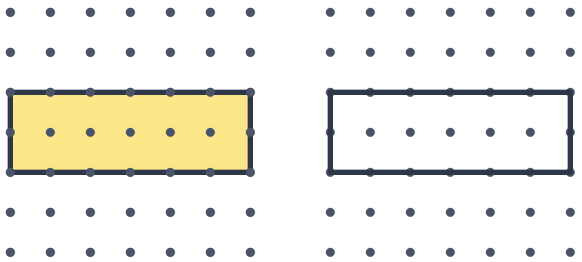
Name _____ Date _____



# Homes as Shapes

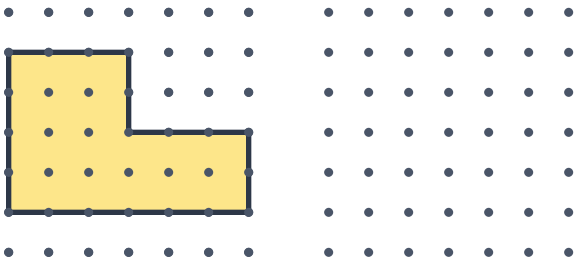
Copy each floor plan on the dots. Count the sides.

**1. The longhouse floor: a long rectangle**



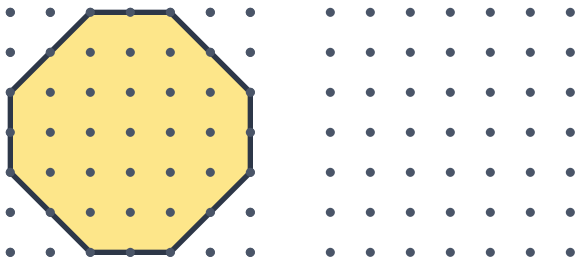

Sides: 4 Example

**2. Two pueblo rooms, one stacked on a longer one**



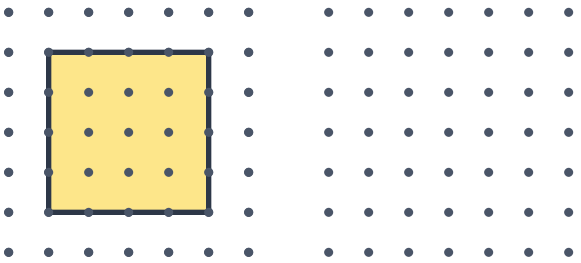

Sides: _____

**3. The eight-sided hogan floor**



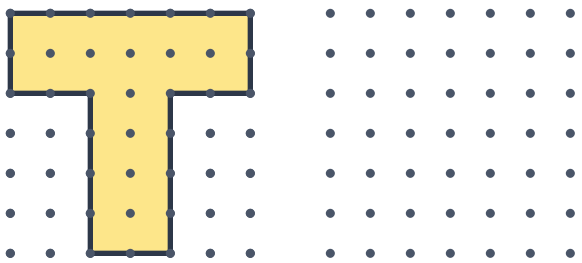

Sides: _____

**4. A square pueblo room**



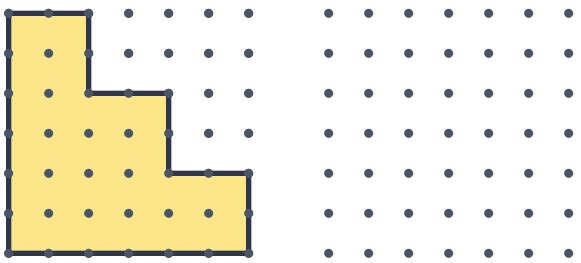

Sides: _____

**5. A T-shaped doorway**




Sides: _____

**6. Three pueblo rooms in steps**




Sides: _____


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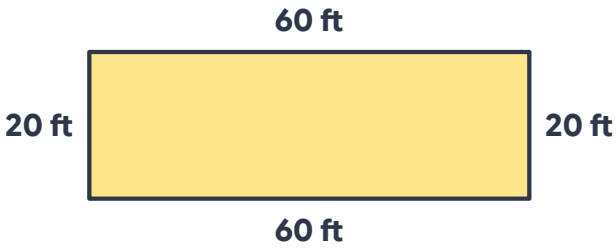
Name _____ Date _____



# Homes as Shapes

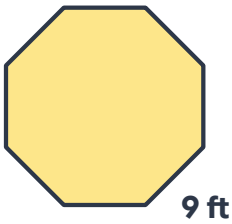
Add the sides to find the perimeter of each floor.

**1.** A longhouse floor about **20** feet wide and **60** feet long.



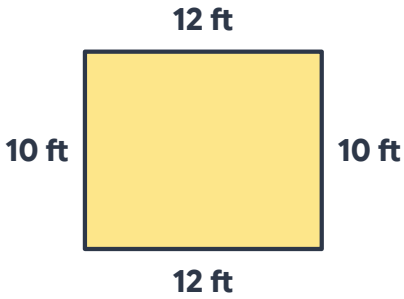

Perimeter = **160** feet Example

**2.** A hogan floor with **8** equal sides, each **9** feet long.



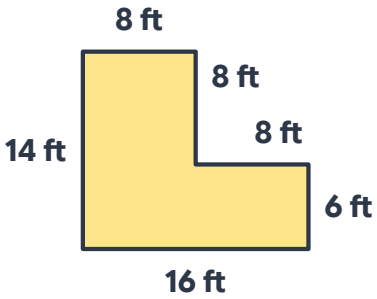

Perimeter = _____ feet

**3.** A pueblo room **12** feet long and **10** feet wide.



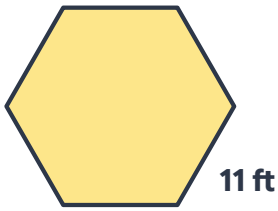

Perimeter = _____ feet

**4.** Two pueblo rooms side by side: a tall one and a short one.




Perimeter = _____ feet

**5.** A hogan floor with **6** equal sides, each **11** feet long.




Perimeter = _____ feet

**6.** A longhouse floor **20** feet wide. One side is missing.




Perimeter: **140** feet. Find the missing side.


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Name _____ Date _____

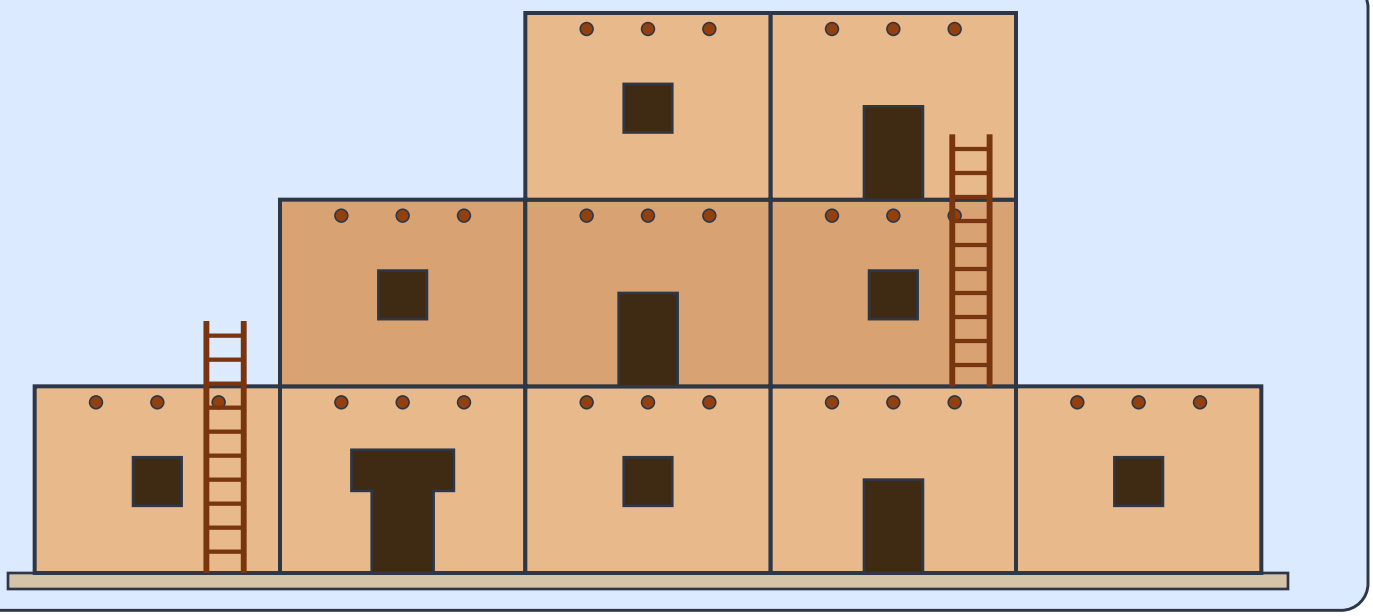


# Homes as Shapes

A pueblo is built of rooms stacked like boxes.



**Ancestral Puebloans built Cliff Palace, with 150 rooms, about 800 years ago. Pueblo people live in stacked homes like this today, at Taos Pueblo. Some doorways were shaped like a T.**



1. How many rooms are in the bottom row? Example 5
2. How many rooms are there in all? _____
3. How many square windows can you count? _____
4. How many sides does the T-shaped doorway have? _____
5. How many more rooms are in the bottom row than the top row? _____
6. How many ladders lead up to the roofs? _____


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Name _____ Date _____



# Homes as Shapes

Fill in the table. Then compare the floors.

| Floor | Home | Shape | Sides | Vertices |
|---|---|---|---|---|
|  | Diné hogan, eight sides | octagon | 8 | 8 |
|  | Diné hogan, six sides | | | |
|  | Haudenosaunee longhouse | | | |
|  | Mandan or Hidatsa earth lodge | | | |
|  | a pueblo room | | | |

1. Which floor has the most sides? Write its shape. _____

2. How many more sides does the octagon have than the rectangle? _____

3. Which floor has no sides and no vertices? Write its shape. _____

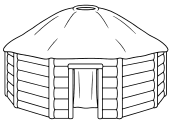
4. How many sides do the two hogan floors have together? _____

5. Which shape has 2 fewer sides than the octagon? _____

6. How many vertices do the square and the rectangle have together? _____

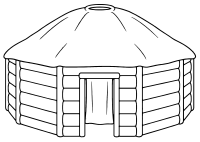

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Name _____ Date _____



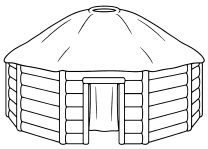
# Homes as Shapes

Look at each floor from above. Name its shape.



**Native nations build homes in many shapes. A floor plan shows a home's floor as if you were looking down from the sky.**

**1. A Diné (Navajo) hogan with eight sides**





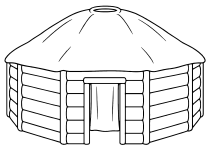
floor

Shape: **octagon**

Sides: **8**

Vertices: **8** Example

**2. A Diné hogan with six sides**





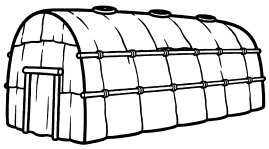
floor

Shape: _____

Sides: _____

Vertices: _____

**3. A Haudenosaunee longhouse**





floor

Shape: _____

Sides: _____

Vertices: _____

**4. An earth lodge of the Mandan, Hidatsa and Arikara**





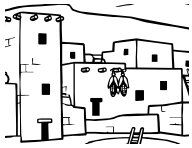
floor

Shape: _____

Sides: _____

Vertices: _____

**5. A room in a pueblo**





floor

Shape: _____

Sides: _____

Vertices: _____

**6. A T-shaped doorway at Mesa Verde**





floor

Shape: _____

Sides: _____

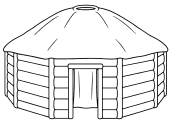
Vertices: _____

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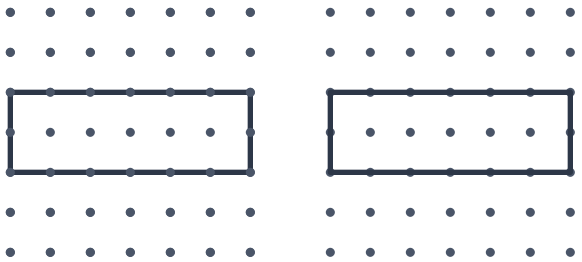
Name _____ Date _____



# Homes as Shapes

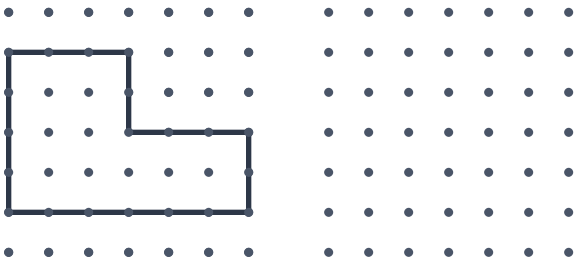
Copy each floor plan on the dots. Count the sides.

**1. The longhouse floor: a long rectangle**



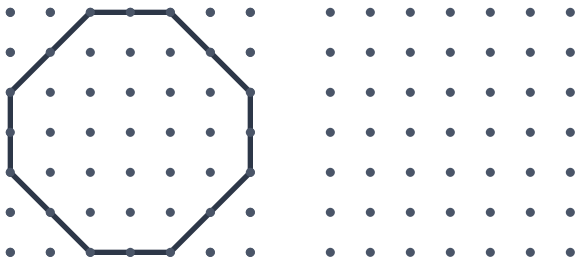

Sides: 4 Example

**2. Two pueblo rooms, one stacked on a longer one**



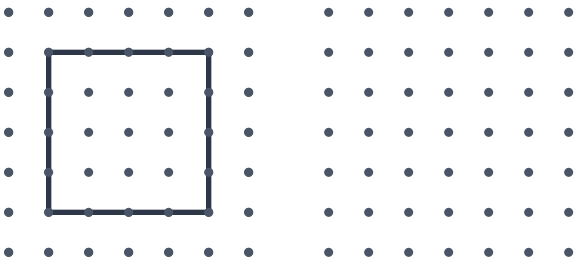

Sides: _____

**3. The eight-sided hogan floor**



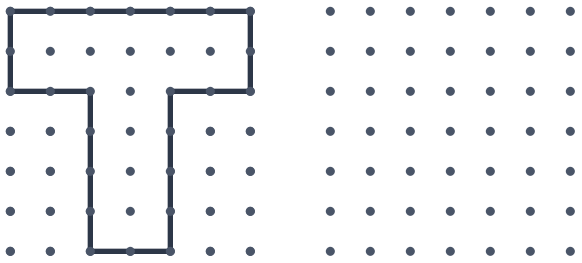

Sides: _____

**4. A square pueblo room**



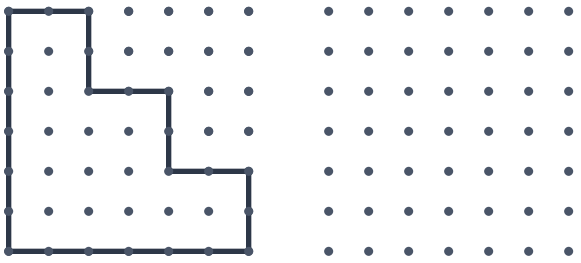

Sides: _____

**5. A T-shaped doorway**




Sides: _____

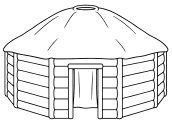
**6. Three pueblo rooms in steps**




Sides: _____


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Name _____ Date _____



# Homes as Shapes

Add the sides to find the perimeter of each floor.

**1.** A longhouse floor about **20** feet wide and **60** feet long.



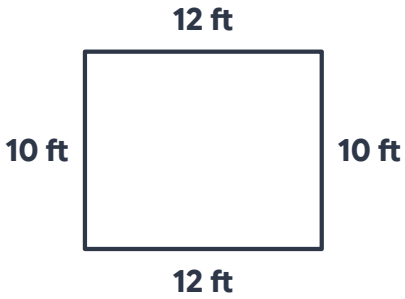

Perimeter = **160** feet Example

**2.** A hogan floor with **8** equal sides, each **9** feet long.



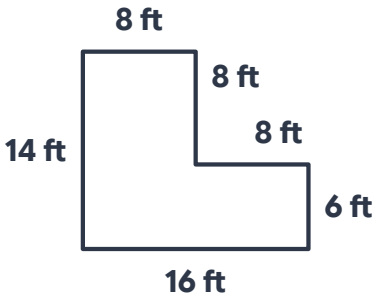

Perimeter = _____ feet

**3.** A pueblo room **12** feet long and **10** feet wide.



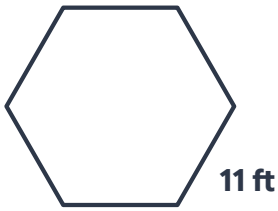

Perimeter = _____ feet

**4.** Two pueblo rooms side by side: a tall one and a short one.



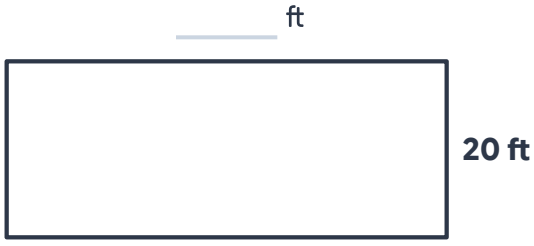

Perimeter = _____ feet

**5.** A hogan floor with **6** equal sides, each **11** feet long.




Perimeter = _____ feet

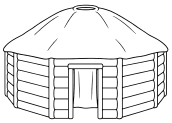
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Perimeter: **140** feet. Find the missing side.

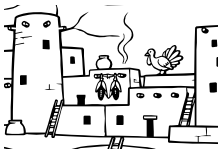

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Name _____ Date _____

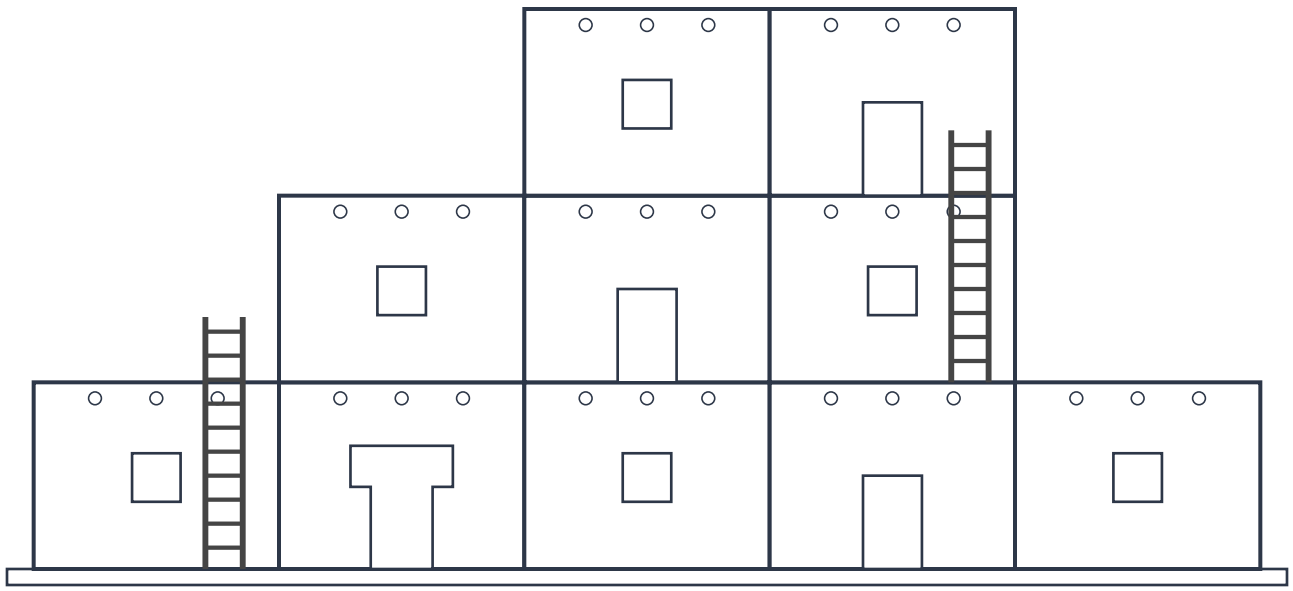


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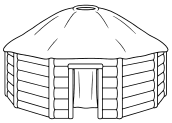
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© 2026 Eggroll Games

Name _____ Date _____



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|  | Mandan or Hidatsa earth lodge | | | |
|  | a pueblo room | | | |

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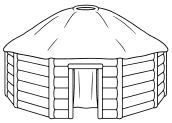
3. Which floor has no sides and no vertices? Write its shape. _____

4. How many sides do the two hogan floors have together? _____

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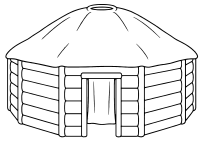
6. How many vertices do the square and the rectangle have together? _____


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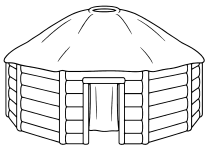
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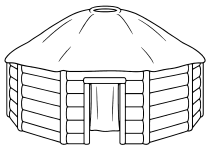
floor

Shape: **octagon**

Sides: **8**

Vertices: **8** Example

**2. A Diné hogan with six sides**





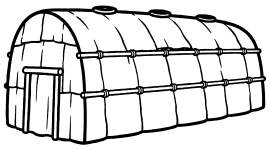
floor

Shape: **hexagon**

Sides: **6**

Vertices: **6**

**3. A Haudenosaunee longhouse**





floor

Shape: **rectangle**

Sides: **4**

Vertices: **4**

**4. An earth lodge of the Mandan, Hidatsa and Arikara**





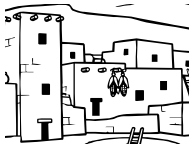
floor

Shape: **circle**

Sides: **0**

Vertices: **0**

**5. A room in a pueblo**





floor

Shape: **square**

Sides: **4**

Vertices: **4**

**6. A T-shaped doorway at Mesa Verde**





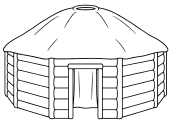
floor

Shape: **octagon**

Sides: **8**

Vertices: **8**

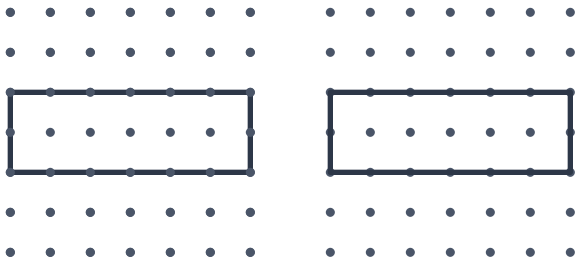

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# Homes as Shapes

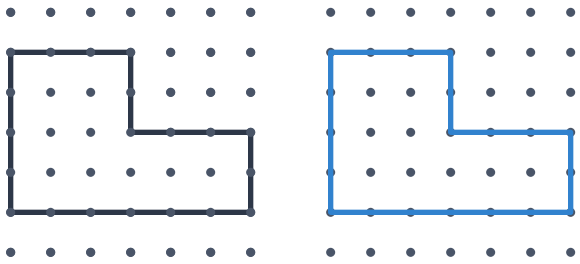
Copy each floor plan on the dots. Count the sides.

**1.** The longhouse floor: a long rectangle



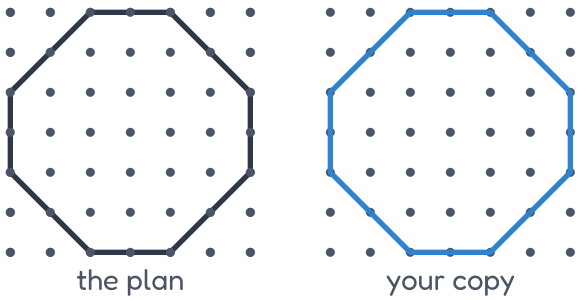

Sides: 4 Example

**2.** Two pueblo rooms, one stacked on a longer one



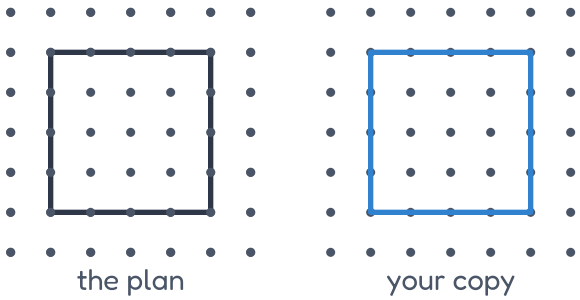

Sides: 6

**3.** The eight-sided hogan floor



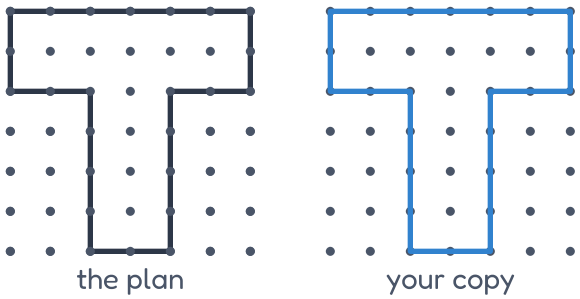

Sides: 8

**4.** A square pueblo room



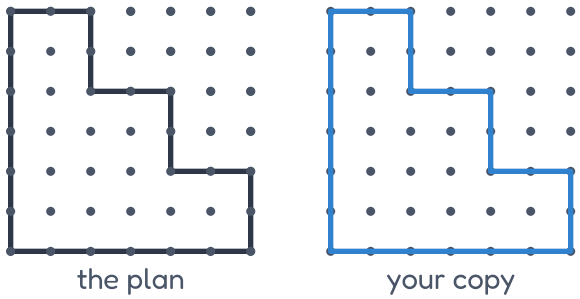

Sides: 4

**5.** A T-shaped doorway



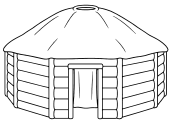

Sides: 8

**6.** Three pueblo rooms in steps




Sides: 8


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# Homes as Shapes

Add the sides to find the perimeter of each floor.

**1.** A longhouse floor about **20** feet wide and **60** feet long.



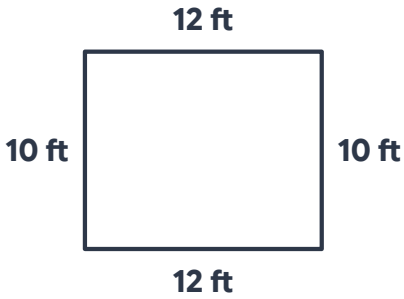

Perimeter = **160** feet Example

**2.** A hogan floor with **8** equal sides, each **9** feet long.



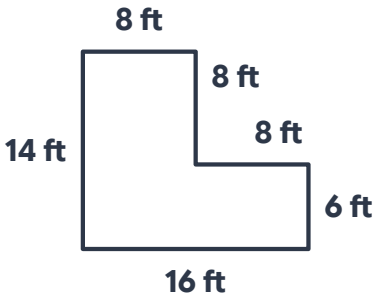

Perimeter = **72** feet

**3.** A pueblo room **12** feet long and **10** feet wide.



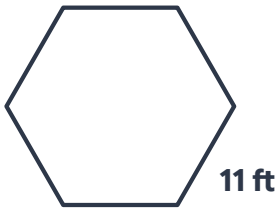

Perimeter = **44** feet

**4.** Two pueblo rooms side by side: a tall one and a short one.




Perimeter = **60** feet

**5.** A hogan floor with **6** equal sides, each **11** feet long.




Perimeter = **66** feet

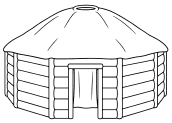
**6.** A longhouse floor **20** feet wide. One side is missing.

**50** ft



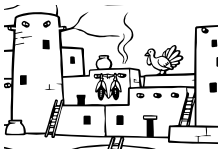

Perimeter: **140** feet. Find the missing side.


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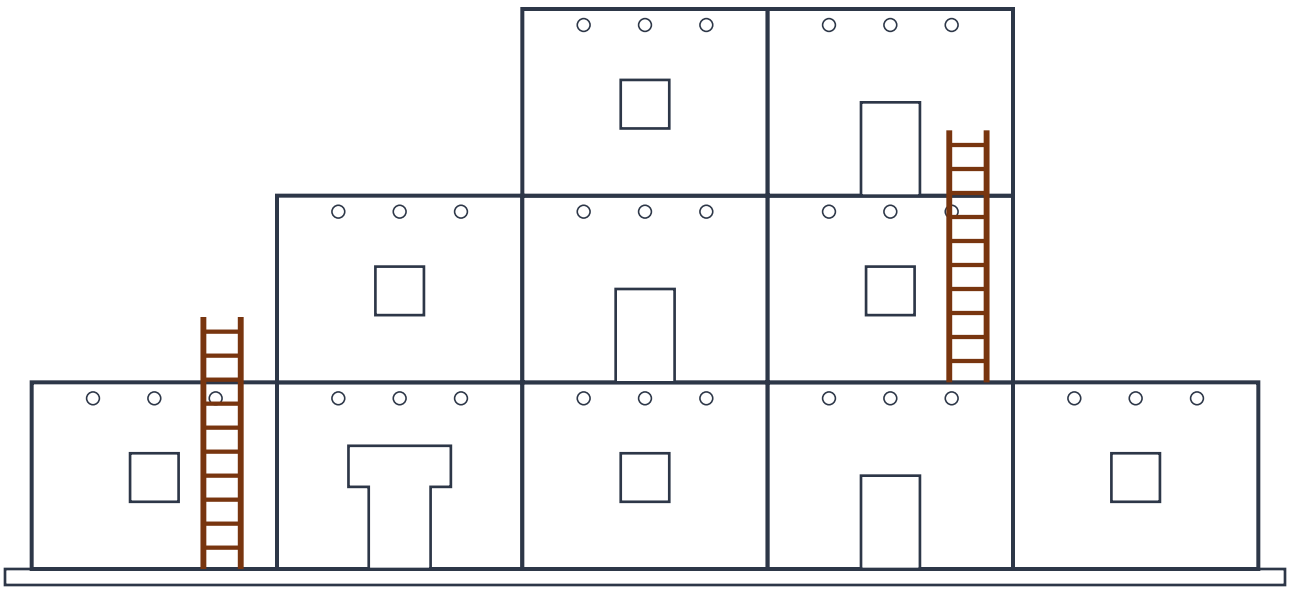


# Homes as Shapes

A pueblo is built of rooms stacked like boxes.

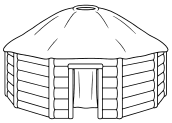


**Ancestral Puebloans built Cliff Palace, with 150 rooms, about 800 years ago. Pueblo people live in stacked homes like this today, at Taos Pueblo. Some doorways were shaped like a T.**



1. How many rooms are in the bottom row? Example **5**
2. How many rooms are there in all? **10**
3. How many square windows can you count? **6**
4. How many sides does the T-shaped doorway have? **8**
5. How many more rooms are in the bottom row than the top row? **3**
6. How many ladders lead up to the roofs? **2**


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# Homes as Shapes

Fill in the table. Then compare the floors.

| Floor | Home | Shape | Sides | Vertices |
|---|---|---|---|---|
|  | Diné hogan, eight sides | octagon | 8 | 8 |
|  | Diné hogan, six sides | hexagon | 6 | 6 |
|  | Haudenosaunee longhouse | rectangle | 4 | 4 |
|  | Mandan or Hidatsa earth lodge | circle | 0 | 0 |
|  | a pueblo room | square | 4 | 4 |

1. Which floor has the most sides? Write its shape. octagon

2. How many more sides does the octagon have than the rectangle? 4

3. Which floor has no sides and no vertices? Write its shape. circle

4. How many sides do the two hogan floors have together? 14

5. Which shape has 2 fewer sides than the octagon? hexagon

6. How many vertices do the square and the rectangle have together? 8


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