Name: _____ Date: _____

Build a Snow Fort

Area, Perimeter & Geometry Challenge

It's time to design the ultimate snow fort! Use math to plan your fort, calculate the area and perimeter, and explore different shapes.

MATERIALS & RULES

You have a snowy building space. Use the grid to design your snow fort. Each square represents 1 square foot.

Your fort must include:

- ☐ At least one wall
- ☐ An entrance
- ☐ A cozy area inside
- ☐ At least one extra feature (like a lookout tower or snow bench)

MY SNOW FORT DESIGN

Draw your snow fort on the grid.

MEASURE & CALCULATE

1. Find the perimeter.
   Count the sides of the squares around the outside of your fort.

   Perimeter: _____ feet

2. Find the area.
   Count the total squares inside your fort.

   Area: _____ square feet

SHAPE CHOICES

You can build your fort in different shapes. Which shape did you choose?



Square ☐ Rectangle ☐ L-Shape ☐

Other Shape (draw and name it) ☐

SNOW FORT FEATURES

Add one or more features to make your fort special! Draw them on your grid and check the ones you include.



☐ Lookout Tower ☐ Snow Bench ☐ Ice Archway



☐ Secret Tunnel ☐ Snow Slide ☐ Decorations

COMPARE & IMPROVE

Try a new design! Change your fort to make it bigger, smaller, or a different shape.

New Perimeter: _____ feet

New Area: _____ square feet

What changed? Which design do you like best and why?

MATH CHALLENGE

1. If you add a snow wall around your fort that is 1 square wider on each side, what will the new perimeter be? _____ feet
2. If you double both the length and width of your fort, what will the new area be? _____ square feet.
3. Which shape gives you the most space for the same perimeter: a long rectangle or a square? Why? _____

REFLECT

1. What strategy did you use to find the perimeter and area?

   _____

   _____
2. What was the most challenging part? _____

   _____
3. How could you make your fort even better next time?

   _____

   _____

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