Starburst 5 Grade 3 KEY Perimeter and Area

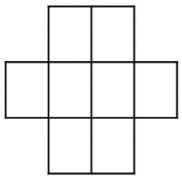
Name:

25 points total. Grid square are worth 2 points each (one for perimeter, one for area). The word problems are with 2 points each. Give partial credit when you can. Use your best judgment.

Use the grid squares to find the area and perimeter of each figure.

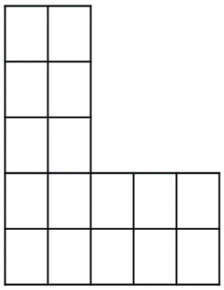
Perimeter: 14 units

Area: 8 square units



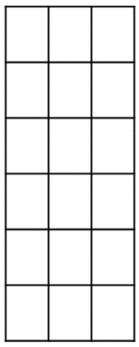
Perimeter: 14 units

Area: 8 square units



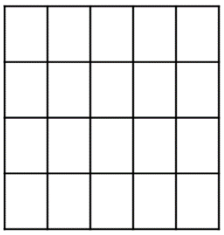
Perimeter: 20 units

Area: 16 square units



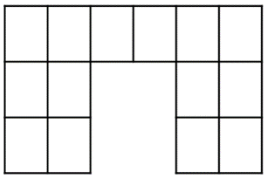
Perimeter: 18 units

Area: 18 square units



Perimeter: 18 units

Area: 20 square units



Perimeter: 22 units

Area: 14 square units

A kitchen is 72 square feet. If it is twelve feet wide, what must the length be in feet? What would the perimeter of the room be?

Length = 6ft Perimeter = 36 feet

Each side of a square office is 9 feet long. What is the office's perimeter and area?

Perimeter = 36 feet Area = 81 square feet

Jacob is going to build a fence in his yard. His fence is a rectangle that measures 16 feet by 12 feet. How much fencing will Jacob need? If he bought 60 feet of fence, does he have enough?

He needs at least 56 feet. Yes, he has enough.

The school wants to buy a chalkboard that measures 2 yards by 4 yards. The chalkboard costs $85.00 per square yard. How much will the chalkboard cost?

8 x 85 = $680

Marcus has 12 certificates to hang on the wall. Each certificate is 8 inches wide by 5 inches tall. The space Marcus has to use is 3 feet wide. Does Marcus have enough space to hang all 12?

Yes. Note: This problem does not give the height of the space. If the space is 3 x 3 feet he still has enough room. Use judgment on this problem. Look for student reasoning. Give partial credit when you can.

The school needs to repave their parking lot. The lot is 14 feet by 20 feet. If it costs $5 per square foot to repave, how much will it cost the school to do the entire lot?

14 x 20 x 5 = $1,400