Same Perimeter, Different Shapes

Let's learn about shapes with the same perimeter.

Warm-up

True or False: Sums of Four Numbers

Decide whether each statement is true or false. Be prepared to explain your reasoning.

- $123 + 75 + 123 + 75 = 100 + 100 + 70 + 70 + 5 + 5 + 3 + 3$

- $123 + 75 + 123 + 75 = (2 \times 123) + (2 \times 75)$

- $123 + 75 + 123 + 75 = 208 + 208$

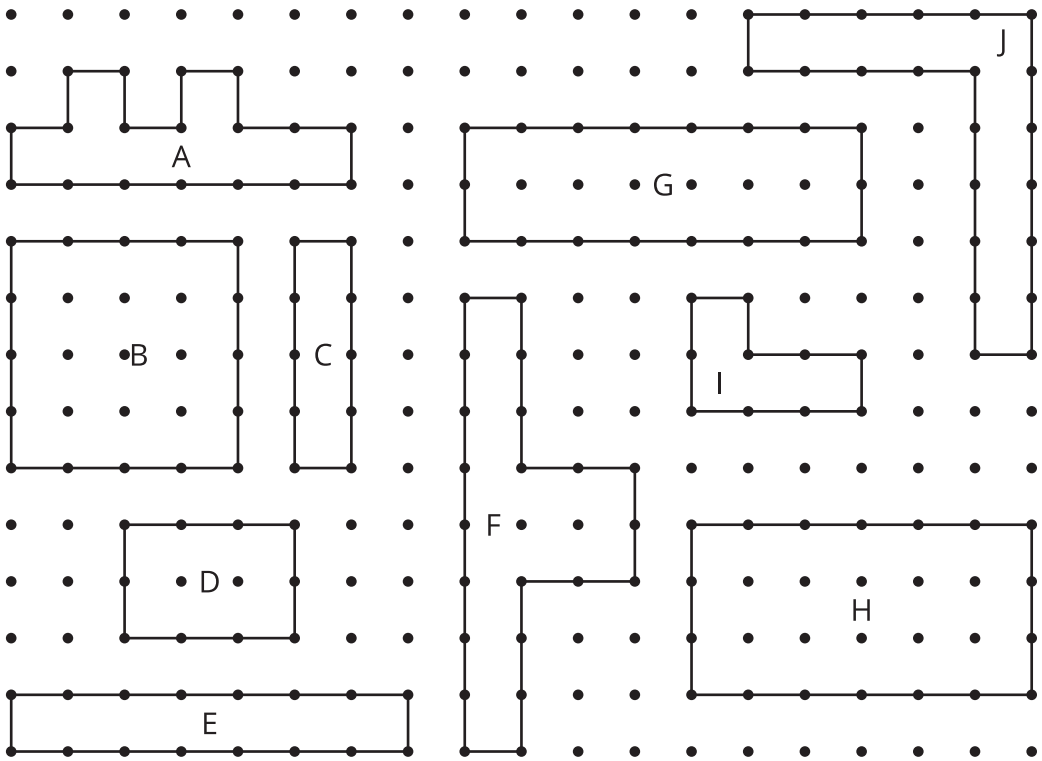
- $123 + 75 + 123 + 75 = 246 + 150$

Activity 1

All Kinds of Figures

1. Choose any 3 of the figures labeled A-J. Find the perimeter of each figure. Explain or show your reasoning.

2. Find 1 labeled figure that has the same perimeter as 1 of the 3 figures you chose.

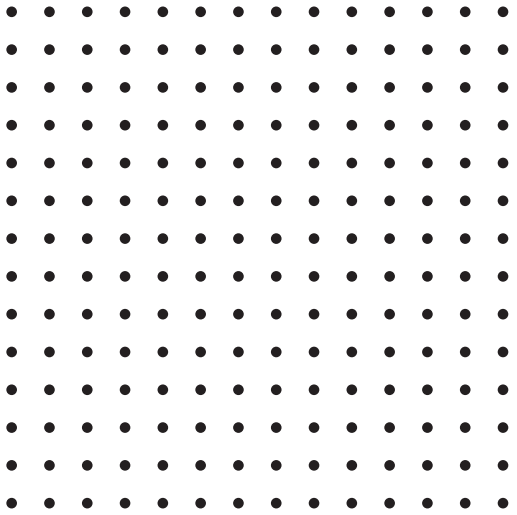


Activity 2

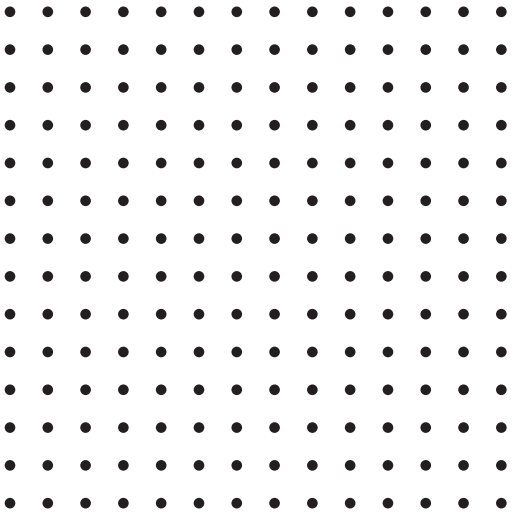
Draw Your Own

1. Draw 2 shapes with each perimeter.

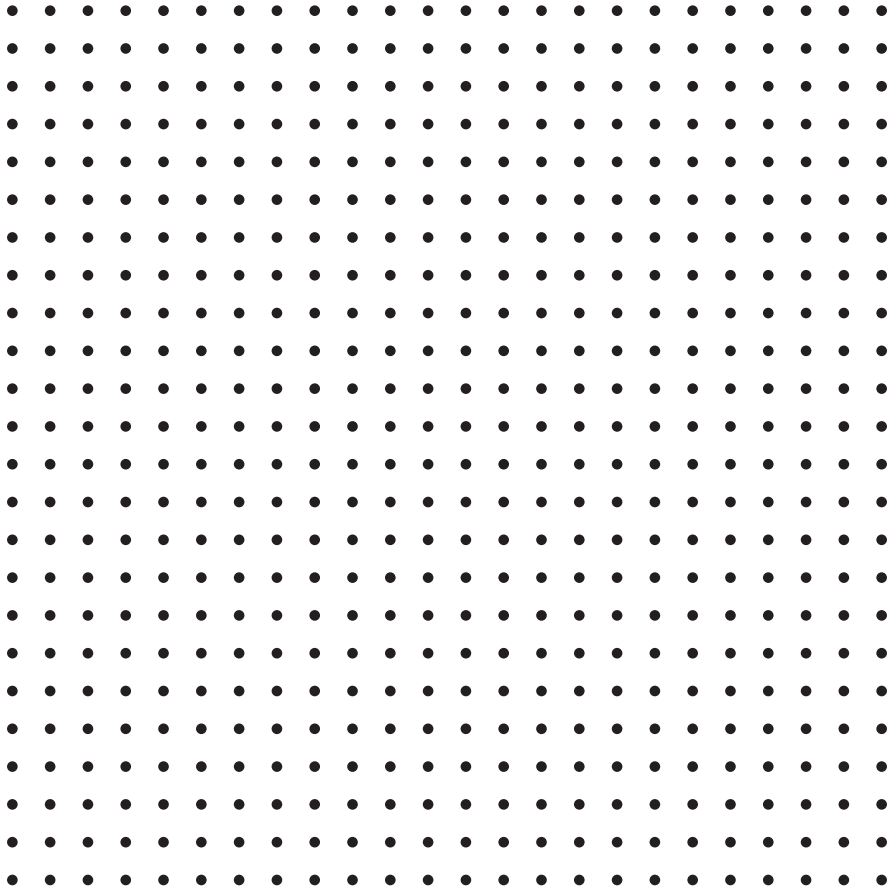
12 units



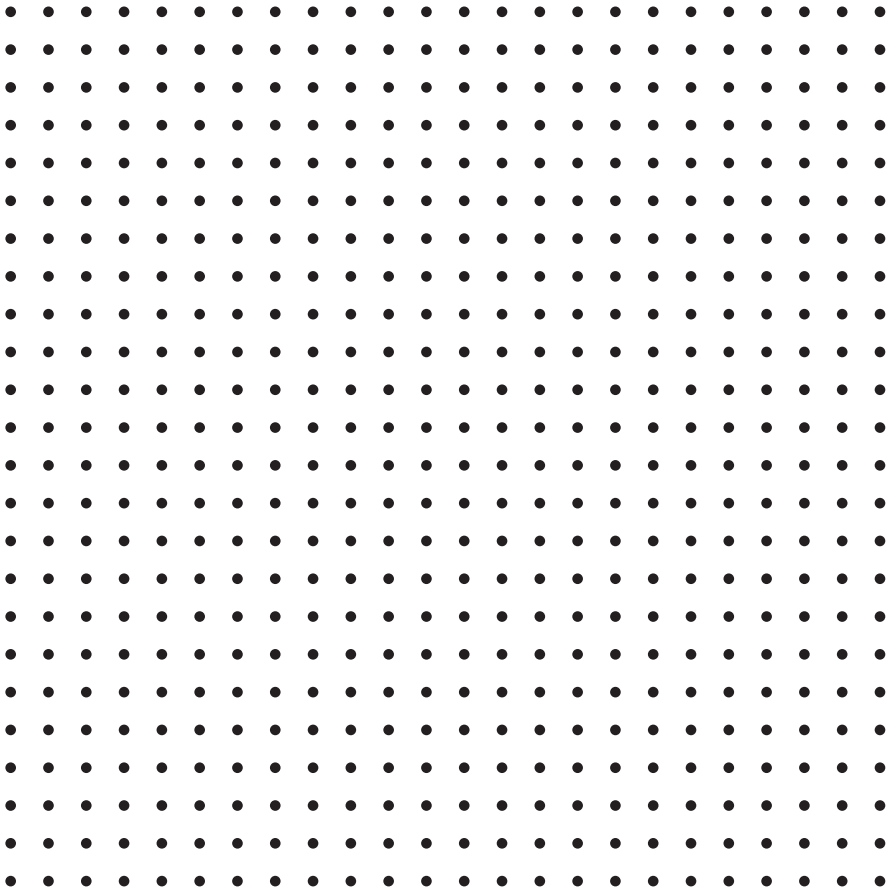
26 units



48 units



2. a. With your partner, choose a length in units. Then without showing your partner, draw your own shape with that perimeter.



b. Share the shapes you drew and discuss how they are alike and how they are different.