

Quadrilaterals

What You Need

- number cube
- Recording Sheet



Check Understanding

Draw two quadrilaterals that have only 1 pair of parallel sides.

What You Do

1. Take turns. Roll the number cube. Read the attributes next to that toss in the table. If the number has already been used, your turn ends.
2. Find the box with your number on the **Recording Sheet**. Draw two different quadrilaterals that match the attributes
3. Your partner checks the answers and writes names for your shapes.
4. Repeat until all the numbers are used.

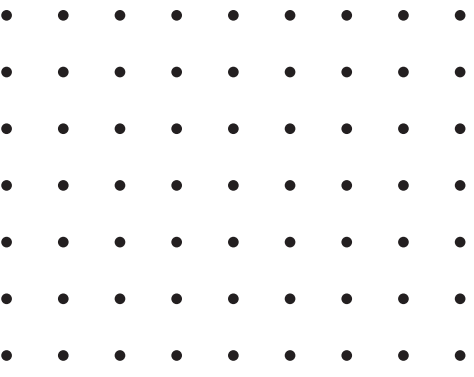
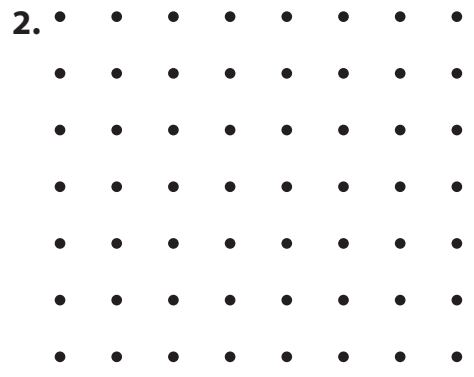
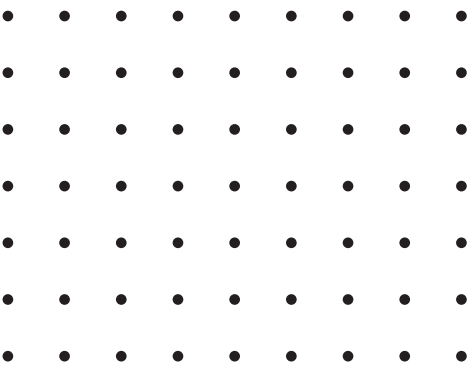
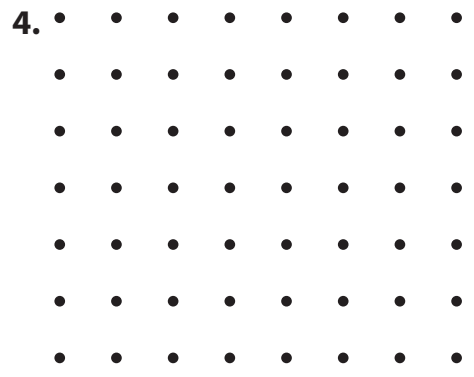
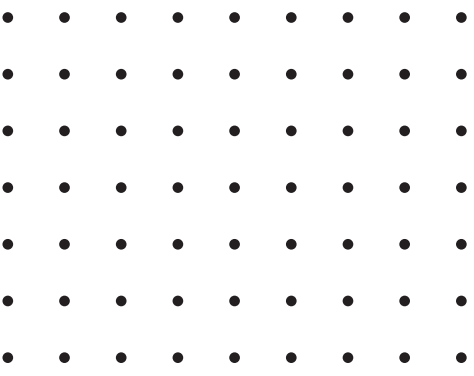
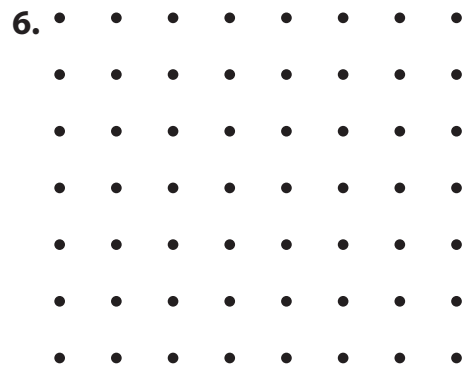
Toss	Attributes
1	2 pairs of parallel sides
2	all sides equal
3	only 2 equal sides
4	2 pairs of equal sides
5	only 2 square corners
6	no equal sides

Go Further!

Draw four quadrilaterals that are parallelograms and five quadrilaterals that are not parallelograms. Label each group. Trade papers with your partner and check each other's drawings.



Quadrilaterals

1. 	2. 
3. 	4. 
5. 	6. 



Equal Areas

What You Need

- Recording Sheet



Check Understanding

Draw two identical rectangles. Divide each one into 12 equal parts. Shade $\frac{1}{4}$ of each rectangle in a different way.

What You Do

1. Take turns. Choose a letter and read the fraction next to that letter in the table.
2. Find the matching letter on the **Recording Sheet**. Shade parts of the first shape to represent the unit fraction.
3. Your partner shades different parts of the second shape to show the same unit fraction.
4. Repeat until all the letters are used.

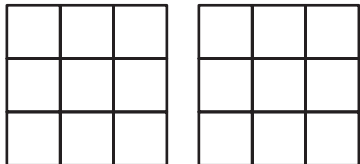
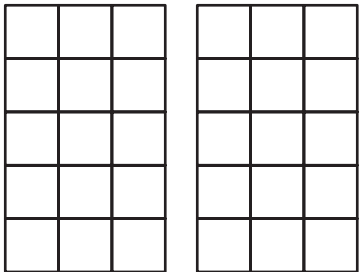
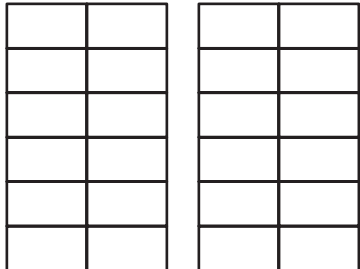
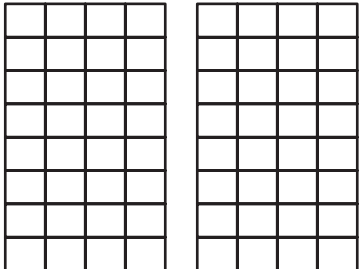
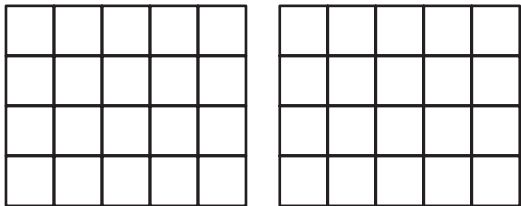
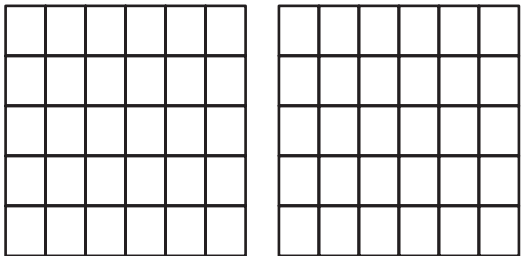
A	$\frac{1}{3}$
B	$\frac{1}{3}$
C	$\frac{1}{2}$
D	$\frac{1}{8}$
E	$\frac{1}{4}$
F	$\frac{1}{6}$

Go Further!

On a separate sheet of paper, draw each of the shapes from the **Recording Sheet**. Shade each shape to show the unit fraction from the table. Shade it differently than both you and your partner did on the **Recording Sheet**. Check your partner's answers.



Equal Areas

<p>A</p> 	<p>B</p> 
<p>C</p> 	<p>D</p> 
<p>E</p> 	<p>F</p> 

I know that the denominator tells me how many equal parts to divide the shape into.



Divide Shapes

What You Need

- ruler
- dot paper
- Recording Sheet



Check Understanding

Draw a rectangle.
Divide the rectangle into 8 equal parts and shade 1 part.
Name a fraction for the shaded part.

What You Do

1. Take turns. Choose a problem on the **Recording Sheet**.
2. Use a ruler to divide the shape into equal parts.
3. Then shade the parts that match the fraction.
4. Your partner checks your work.
5. Continue until all the boxes are used.

I know that the numerator tells how many parts need to be shaded.



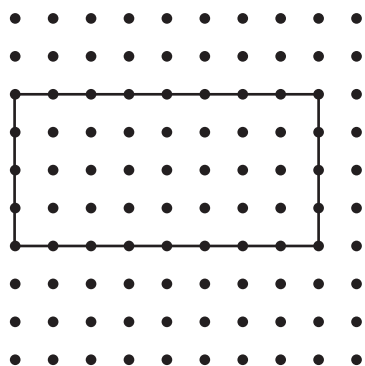
Go Further!

Draw two rectangles and divide each rectangle into 4, 6, or 8 equal parts. Then shade one part in each rectangle. Your partner writes the fraction for the shaded part in each rectangle. Check your partner's work.

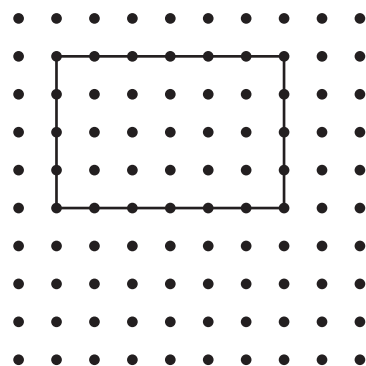


Divide Shapes

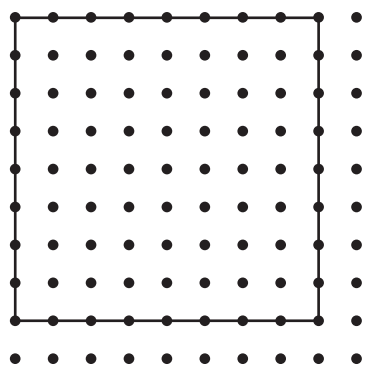
Shade $\frac{1}{8}$ of this rectangle.



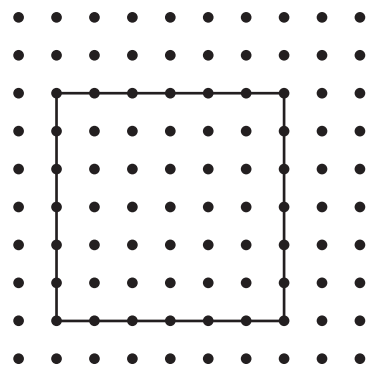
Shade $\frac{1}{2}$ of this rectangle.



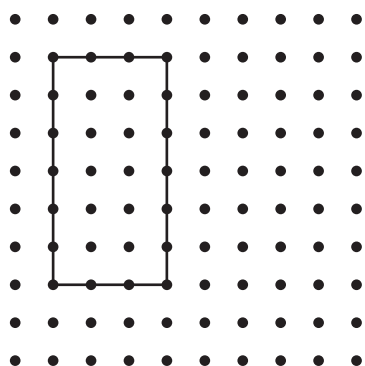
Shade $\frac{1}{4}$ of this square.



Shade $\frac{1}{6}$ of this square.



Shade $\frac{1}{3}$ of this rectangle.



Shade $\frac{1}{4}$ of this rectangle.

