

Name \_\_\_\_\_

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## Fractions of Regions and Sets

### Practice

Use graph paper to draw these figures.

1. Draw a square. Draw a straight line from the top right corner to the bottom left corner. Draw another line from the top left corner to the bottom right corner. Shade the triangle that sits in the bottom of the square. How many equal parts are there? How many parts are shaded?  $\frac{\quad}{\quad}$  of the region is shaded.
2. Draw a triangle with 3 sides the same length. Draw a line from the point of the top to the middle of the line at the bottom. Shade the left side. How many parts are there? How many parts are shaded?  $\frac{\quad}{\quad}$  of the region is shaded.
3. Draw a rectangle which is wider than it is high. Draw a line down the center of the rectangle. Draw a line down the center of the two regions you have just made. Now draw a line across the center of the rectangle, cutting through the three other lines you have drawn. Shade all the boxes above the center line and shade the bottom left box. How many equal parts are there? How many parts are shaded?  $\frac{\quad}{\quad}$  of the region is shaded.
4. Paul has 3 blue marbles, 2 clear marbles, and 4 green marbles. How many marbles does he have in all? How many marbles are clear? What fraction of the marbles are clear?

## Lowest-Terms Fractions

### Practice

Reduce to lowest terms.

- |                    |                    |                     |                     |
|--------------------|--------------------|---------------------|---------------------|
| 1. $\frac{20}{40}$ | 2. $\frac{9}{45}$  | 3. $\frac{10}{25}$  | 4. $\frac{15}{27}$  |
| 5. $\frac{14}{21}$ | 6. $\frac{16}{56}$ | 7. $\frac{42}{48}$  | 8. $\frac{25}{100}$ |
| 9. $\frac{30}{36}$ | 10. $\frac{8}{10}$ | 11. $\frac{12}{18}$ | 12. $\frac{9}{30}$  |