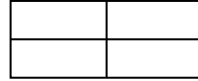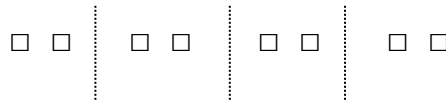**Study the following.**

Equal parts- 1. Parts of a whole that are the same size.

This box is divided into 4 equal parts.

2. Parts of a group that are the same size.

This group of 8 squares is divided into 4 equal parts with dotted lines.
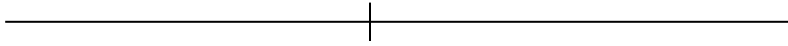
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Draw 4 large examples of each.
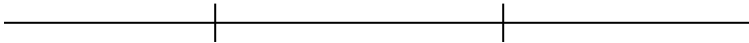
A whole divided into equal parts.

A group divided into equal parts.
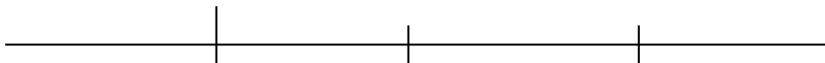
Study how to divide lines into sections.

To divide a line into two equal parts, draw one mark.

To divide a line into three equal parts draw two marks.

To divide a line into four equal parts, draw 3 marks.

Notice how you get one more equal part than the number of marks you make.

Fill in the blanks.

1. If you want to divide a line into 6 parts, make _____ marks on the line.
2. If you want to divide a line into 10 parts, make _____ marks on the line.
3. If you want to divide a line into 18 parts, make _____ marks on the line.
4. If you want to divide a line into 25 parts, make _____ marks on the line.

Divide the following lines into the number of parts written next to the line.
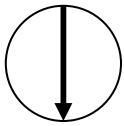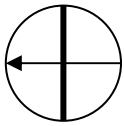
5. 2 parts

6. 4 parts
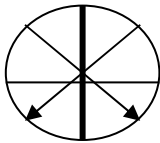
7. 5 parts

8. 6 parts

9. 10 parts

Study how to divide shapes into equal parts.

Circles: To divide a shape into 4 or 8 equal parts, divide it into two equal parts first.
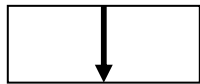
Then divide each of those parts into two equal parts, to get 4 equal parts.

Then divide each of those parts into two equal parts, to get 8 equal parts.
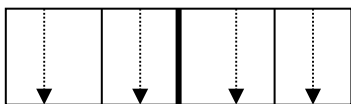
Rectangles: Dividing rectangles is similar to dividing lines into equal parts. You draw one less line than the parts you need.

two equal parts (draw one line)

four equal parts(draw three lines)
The easiest way is to divide into 2 equal parts first, then divide each of those parts into 2 equal parts.

eight equal parts(draw seven lines)
The easiest way is to divide into four equal Parts as explained above, and then divide Each of those into two equal parts.

Draw a <u>large </u>circle and divide it into…

2 equal parts-

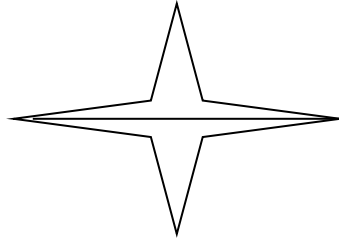4 equal parts-

8 equal parts-

Draw a <u>large</u> rectangle and divide it into…

2 equal parts-

4 equal parts-

8 equal parts-

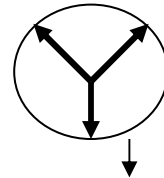**Experiment with other shapes and draw 5 <u>large</u> shapes that you can divide into two equal parts.** Example:

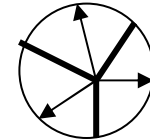**Draw 3 <u>large</u> shapes that you can divide into four equal parts.**

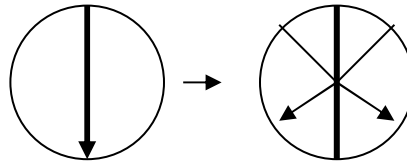**Study dividing shapes into 3 or 6 equal parts.**

Circles:

  When dividing into 3 equal parts
It is hard to get it exact, so just do your best.

To divide into six equal parts, divide into 3
equal parts, and then divide each of those into
2 parts.

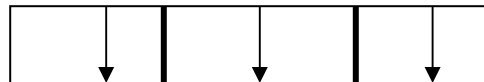Or: divide into 2 parts first,
Then divide each part into 3 parts.

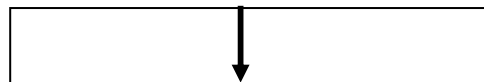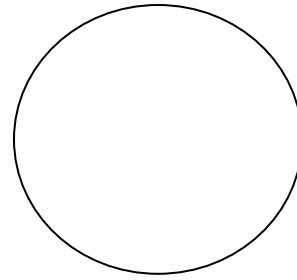Rectangles:

Three parts first:

Then 6 parts:

Or:

Two parts first:
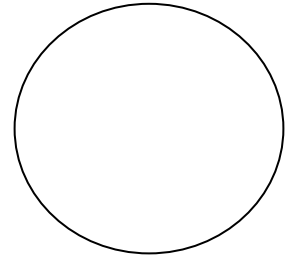
Then each part
Into 3 parts:

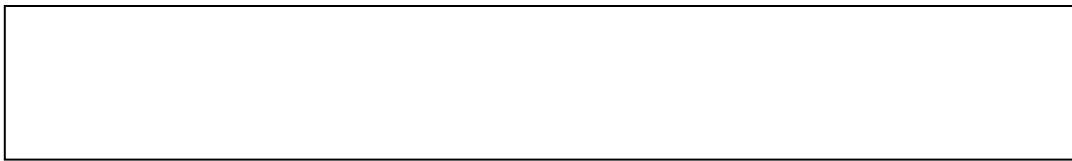**Divide the circle into 3 equal parts.**

Divide the circle into 6 equal parts.

Divide the rectangle into 3 equal parts.

Divide the rectangle into 6 equal parts.

Go to Appendix B in the back of the book. Remove the fraction cut-outs and cut them all out on the dotted lines.

Place them all back together to make whole circles. Look at how circles are divided into equal parts.

How many whole circles do you have? _____