

Modeling Division

Division is a skill that you have been using for a very long time. If you have brothers or sisters, you have divided. If you have friends, you have divided. Division is a type of mathematics that focused on splitting a quantity into equal groups.

Vocabulary

Division	The act of sharing or splitting a quantity into a number of equal groups.
Dividend	The quantity that will be divided.
Divisor	The number of groups in which a dividend is divided into.
Quotient	The answer to a division problem.

Read from left to right

$$24 \div 4 =$$

24 split evenly into 4 groups

Division Symbols

Read from right to left

$$4 \overline{)24}$$

24 split evenly into 4 groups

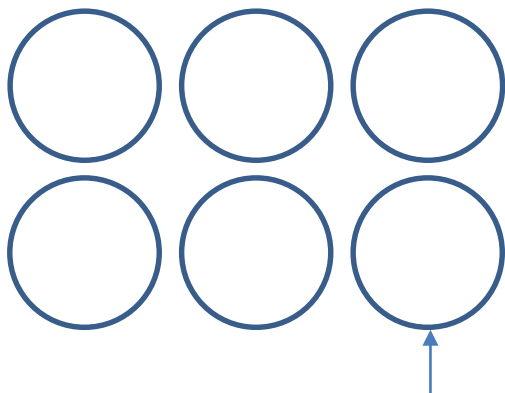
Division Strategies

Equal Groups

Using equal groups to divide a number is a very effective strategy. Look at the problem below.

"A teacher has 24 pencils that she wants to share equally with her 6 students. How many pencils will each student get?"

$$24 \div 6 = \underline{\quad}$$



Repeated Subtraction

Using repeated subtraction can be used to quickly divide numbers that can be easily skip counted. Try it on this problem.

"A man had \$80.00 dollars. He wanted to buy as many \$10.00 pizzas as he could afford. How many pizzas could he buy?"



What numbers are easy to skip count by?

$$24 \div 4 = \underline{\quad}$$

$$\underline{\quad} = 15 \div 5$$

$$\underline{\quad} = 42 \div 6$$

$$30 \div 10 = \underline{\quad}$$

$$3 \overline{)9}$$

$$9 \overline{)27}$$

$$5 \overline{)40}$$

$$4 \overline{)12}$$