

## Division Basics

### Understanding Division

#### What is Division?

Division is like sharing. When you divide, you're splitting a big group into smaller equal groups.

Imagine you have 12 candies, and you want to share them equally with your 3 friends. How many candies will each friend get? To find out, you divide!

#### How to Write a Division Problem

Division can look like this:

$$12 \div 3 = 4$$

This is called a division equation. The number being divided is called the dividend (here, 12). The number we divide by is called the divisor (here, 3). The answer we get is called the quotient (here, 4).

So,  $12 \div 3 = 4$  means that if you divide 12 candies among 3 friends, each friend will get 4 candies.

### Division Vocabulary

Here are some important words to remember:

**Dividend:** The number you want to divide (split up).

**Divisor:** The number of groups you want to make.

**Quotient:** The answer in a division problem.

**Equal Groups:** The groups you're making need to be the same size.

#### Division as Repeated Subtraction

You can think of division as repeated subtraction. Let's say you have  $10 \div 2$ . This means you keep taking away 2 from 10 until you reach 0. Like this:

$$10 - 2 = 8$$

$$8 - 2 = 6$$

$$6 - 2 = 4$$

$$4 - 2 = 2$$

$$2 - 2 = 0$$

It took 5 subtractions to reach 0, so  $10 \div 2 = 5$ .

### Division Facts with Examples

Just like with multiplication, division has basic facts that can help you solve problems faster. Here are some examples to remember:

$8 \div 2 = 4$  (If you split 8 apples between 2 people, each gets 4.)

$15 \div 3 = 5$  (If you split 15 marbles among 3 kids, each gets 5.)

$20 \div 4 = 5$  (If you divide 20 stickers into 4 groups, each group has 5.)

### Practice Problems

Let's try a few problems together. Write down the answers on your own!

$$9 \div 3 = ?$$

$$12 \div 4 = ?$$

$$16 \div 2 = ?$$

$$18 \div 6 = ?$$

$$20 \div 5 = ?$$

Fun Activity: Division in Real Life!

Take something you can count, like buttons or crayons. Try splitting them into groups of 2, 3, or 4 and see how many groups you make!

This will help you see how division works in everyday life. Division is all around us!

Quick Quiz

What do we call the number we divide by?

A) Dividend

B) Divisor

C) Quotient

If you have 15 candies and divide them equally among 5 friends, how many candies does each friend get?

A) 2

B) 3

C) 5

True or False: Division is like sharing things equally.

Answers to Quick Quiz

B) Divisor

C) 5

True

1. What is the number called that you want to divide?

*Select the correct answer*

☐ a. Equal Groups

☐ b. Divisor

☐ c. Quotient

☐ d. Dividend

2. If you have 12 candies and divide them among 3 friends, how many candies does each friend receive?

*Select the correct answer*

- ☐ a. 5
- ☐ b. 4
- ☐ c. 2
- ☐ d. 3

3. What do we call the number we divide by?

*Select the correct answer*

- ☐ a. Groups
- ☐ b. Divisor
- ☐ c. Dividend
- ☐ d. Quotient

4. In the equation  $20 \div 4 = 5$ , what is the quotient?

*Select the correct answer*

- ☐ a. 4
- ☐ b. 1
- ☐ c. 5
- ☐ d. 20

5. How can you think of division, according to the text?

*Select the correct answer*

- ☐ a. As counting
- ☐ b. As adding
- ☐ c. As sharing
- ☐ d. As repeating

6. What is the result called when you divide 10 by 2?

*Select the correct answer*

- ☐ a. Groups
- ☐ b. Quotient
- ☐ c. Divisor
- ☐ d. Dividend

7. What does  $15 \div 3$  equal?

*Select the correct answer*

- ☐ a. 4
- ☐ b. 5
- ☐ c. 3
- ☐ d. 6

8. If you have 18 candies and divide them among 6 friends, how many does each get?

*Select the correct answer*

- ☐ a. 3
- ☐ b. 2
- ☐ c. 5
- ☐ d. 4

9. When dividing, what must the groups be?

*Select the correct answer*

- ☐ a. Smaller sizes
- ☐ b. Equal sizes
- ☐ c. Larger sizes
- ☐ d. Different sizes

10. In the problem  $12 \div 4$ , what is the divisor?

*Select the correct answer*

☐ a. 12

☐ b. 3

☐ c. 2

☐ d. 4