

2 ARITHMETIC EXPRESSIONS

2.1 Simple Expressions

You may have seen mathematical phrases like $13 + 2$, $20 - 4$, 12×5 , and $18 \div 3$. Such phrases are called **arithmetic expressions**.

Every arithmetic expression has a value which is the number it evaluates to. For example, the value of the expression $13 + 2$ is 15. This expression can be read as '13 plus 2' or 'the sum of 13 and 2'.

We use the equality sign '=' to denote the relationship between an arithmetic expression and its value. For example:

$$13 + 2 = 15.$$

Example 1: Mallika spends ₹25 every day for lunch at school. Write the expression for the total amount she spends on lunch in a week from Monday to Friday.

The expression for the total amount is 5×25 .
 5×25 is "5 times 25" or "the product of 5 and 25".

Different expressions can have the same value. Here are multiple ways to express the number 12, using two numbers and any of the four operations +, -, \times and \div :

$$10 + 2, 15 - 3, 3 \times 4, 24 \div 2.$$

Example 2: Choose your favourite number and write as many expressions as you can having that value.

Comparing Expressions

As we compare numbers using '=', '<' and '>' signs, we can also compare expressions. We compare expressions based on their values and write the 'equal to', 'greater than' or 'less than' sign accordingly. For example,

$$10 + 2 > 7 + 1$$

because the value of $10 + 2 = 12$.
Similarly,

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Figure it Out

- Fill in the blanks to make the = sign:
(a) $13 + 4 = \underline{\quad} + 6$
(c) $8 \times \underline{\quad} = 64 \div 2$
- Arrange the following expressions in order of their values.
(a) $67 - 19$
(c) $35 + 25$
(e) $120 \div 3$

Example 2: Which is greater?

Imagine a situation where you had 100 marbles and found 25 more without finding the value of the expression and got 125 more today. Joy had 102 more today. Now he has more today. Who has more?

This situation can be represented by the picture on the right. Joy has more marbles than Raja today. We can write $102 > 100 + 25$. That is,

$$102 > 100 + 25$$

Example 3: Which is greater?

Imagine a situation where you had 100 marbles and lost 25 of them. He has 75 marbles and lost 24. Who has more marbles now?

Raja had 1 marble more than you. You lost 1 marble more than Raja. Who has more marbles now? That is,

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