



# Writing Numerical Expressions

Grade 5 Algebra Worksheet

Date: \_\_\_\_\_

Name: \_\_\_\_\_

## LET'S MAKE LEARNING FUN

1. For each written phrase, write a numerical expression, and then solve.

Sentence	Numerical Expression	Solution
a. Forty times the sum of forty-three and fifty-seven		
b. Seven times the quotient of five and seven		
c. Divide the difference between one thousand, three hundred, and nine hundred and fifty by four		
d. One-fourth the difference of four-sixths and three-twelfths		

2. Write numerical expression for each of the statements below, then solve.

a. Four fifths of seven.

b. One-eighth the product of four and six.

3. Make this following number sentences true by using  $<$ ,  $>$ , or  $=$  .

a.  $6 \times 8.70$    $5 \times 3.46 + 7 \times 4.95$

b. 60 4 tenths + 3 tens + 1 thousandth  20.31

c.  $\left(5 \times \frac{1}{10}\right) + \left(7 \times \frac{1}{1000}\right)$   0.609

## Writing Numerical Expressions

Grade 5 Algebra Answer Sheet

1. For each written phrase, write a numerical expression, and then solve.

Sentence	Numerical Expression	Solution
a. Forty times the sum of forty-three and fifty-seven	$40 \times (43 + 57)$	<b>4,000</b>
b. Seven times the quotient of five and seven	$7 \times \frac{5}{7}$	<b>5</b>
c. Divide the difference between one thousand, three hundred, and nine hundred and fifty by four	$\frac{1300 - 950}{4}$	$87\frac{1}{2}$
d. One-fourth the difference of four-sixths and three-twelfths	$\frac{1}{4} \times \left( \frac{4}{6} - \frac{3}{12} \right)$	$\frac{5}{48}$

2. Write numerical expression for each of the statements below, then solve.

- a. Four fifths of seven.

**Numerical Expression:**

$$\frac{4}{5} \text{ of } 7$$

**Solution:**

$$\frac{4}{5} \text{ of } 7 = \frac{4}{5} \times 7 = \frac{4 \times 7}{5} = \frac{28}{5} = 5\frac{3}{5}$$

- b. One-eighth the product of four and six.

**Numerical Expression:**

$$\frac{1}{8} \times (4 \times 6)$$

**Solution:**

$$\frac{1}{8} \times (4 \times 6) = \frac{1}{8} \times (24) = \frac{1 \times 24}{8} = \frac{24}{8} = 3$$

3. Make this following number sentences true by using  $<$ ,  $>$ , or  $=$  .

a.  $6 \times 8.70$    $5 \times 3.46 + 7 \times 4.95$

**Workings:**

$$6 \times 8.70 = \mathbf{52.2}$$

Using the rule of BODMAS,

$$5 \times 3.46 + 7 \times 4.95 = (5 \times 3.46) + (7 \times 4.95) = (17.3) + (7 \times 4.95) = \mathbf{51.95}$$

Since 52.2 is greater than 51.95.

Then,  $52.2$    $51.95$ .

So that,  $6 \times 8.70$    $5 \times 3.46 + 7 \times 4.95$

b.  $4 \text{ tenths} + 3 \text{ tens} + 1 \text{ thousandth}$    $20.31$

**Workings:**

$$4 \text{ tenths} + 3 \text{ tens} + 1 \text{ thousandth} = 3.401$$

Since, 3.401 is less than 20.31.

Then,  $3.401$    $20.31$ .

So that,  $4 \text{ tenths} + 3 \text{ tens} + 1 \text{ thousandth}$    $20.31$

c.  $\left(5 \times \frac{1}{10}\right) + \left(7 \times \frac{1}{1000}\right)$    $0.609$

**Workings:**

$$\left(5 \times \frac{1}{10}\right) + \left(7 \times \frac{1}{1000}\right) = \frac{5}{10} + \frac{7}{1000} = \frac{500 + 7}{1000} = \frac{507}{1000} = 0.507$$

But, 0.507 is less than 0.609.

Thus,  $0.507$    $0.609$