



# FRÖEBEL

FRIEDRICH FROEBEL BILINGUAL SCHOOL

# 2018 SUMMER MATHEMATIC SKILLS SHARPENER GOING TO EIGHTH GRADE

CELEBRATING 36 YEARS OF BUILDING THE FUTURE OF OUR YOUTH!



# 2018 SUMMER MATHEMATIC SKILLS SHARPENER GOING TO EIGHTH GRADE

<b>STUDENT'S NAME</b>	<b>DATE</b>
<b>TEACHER COMING FROM</b>	<b>SCORE</b>
<b>TEACHER GOING TO</b>	
<b>PARENT'S SIGNATURE</b>	<b>DATE RECEIVED</b>

# SKILLS SHARPENER FOR EIGHTH GRADE

SCORE - \_\_\_/\_\_\_

## WEEK 1.

Day 1. ADD THE FOLLOWING POSITIVE AND NEGATIVE INTEGERS.

$$\begin{array}{r} -2 \\ +5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + -7 \\ \hline \end{array}$$

$$\begin{array}{r} -4 \\ + -6 \\ \hline \end{array}$$

$$\begin{array}{r} -25 \\ + -5 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \\ + (-19) \\ \hline \end{array}$$

Day 2. SUBTRACT THE FOLLOWING POSITIVES AND NEGATIVE INTEGERS.

$$\begin{array}{r} 29 \\ - (-16) \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} -9 \\ - (-5) \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} -7 \\ - (-5) \\ \hline \end{array}$$

Day 3. WRITE THE PRODUCTS FOR THE FOLLOWING EXERCISES.

$$\begin{array}{r} -26 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} -43 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} -7 \\ \times -6 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times -3 \\ \hline \end{array}$$

$$\begin{array}{r} -15 \\ \times -5 \\ \hline \end{array}$$

Day 4. WRITE THE QUOTIENT FOR THE FOLLOWING EXERCISES.

$$5 \overline{) -50}$$

$$50 \div 2$$

$$-45 \div 9$$

## WEEK 2.

Day 1. ADD AND SUBTRACT THE FOLLOWING FRACTIONS.

$$\frac{1}{2} + \frac{1}{2} = \underline{\hspace{2cm}}$$

$$\frac{4}{6} + \frac{3}{8} = \underline{\hspace{2cm}}$$

$$\frac{3}{10} + \frac{2}{5} = \underline{\hspace{2cm}}$$

$$\frac{4}{6} - \frac{2}{3} = \underline{\hspace{2cm}}$$

Day 2. CONVERT THE FOLLOWING FRACTIONS INTO DECIMALS.

$$\frac{5}{10} =$$

$$\frac{8}{12} =$$

$$\frac{9}{11} =$$

$$\frac{4}{9} =$$

Day 3. WRITE THE FOLLOWING FRACTIONS AS MIXED NUMBERS.

$$\frac{5}{3} =$$

$$\frac{10}{4} =$$

$$\frac{9}{4} =$$

$$\frac{25}{4} =$$

Day 4. SOLVE THE FOLLOWING PROBLEMS WITH DECIMALS BY ADDING SUBTRACTING MULTIPLYING OR DIVIDING 0...

1.  $0.7 \times 8.4$

2.  $11.4 \div 0.7$

3.  $12.5 + 8.23$

4.  $7.25 + 5.45$

5.  $6 \div 0.8$

## WEEK 3.

Day 1. SOLVE THE EQUATIONS BY ADDING AND SUBTRACTING. CHECK YOUR ANSWER.

1.  $X+5=20$
2.  $Y-3=-2$
3.  $28=G+28$
4.  $13+R=30$
5.  $177=403-W$

Day 2. SOLVE THE FOLLOWING MULTIPLYING OR DIVIDING CHECK YOUR ANSWER.

1.  $\frac{t}{4} = 6$
2.  $\frac{a}{17} = 8$
3.  $7y = 135$
4.  $95 = 5b$
5.  $301 = 43b$

Day 3. EVALUATE THE FOLLOWING EXPRESSIONS Using Order of Operations.

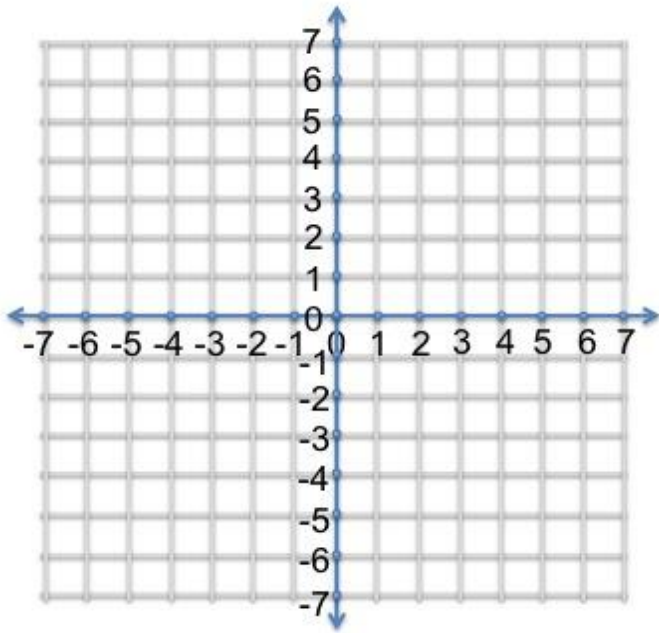
1.  $18-3 \times 2$
2.  $27 \div 3 + 6$
3.  $\frac{20+12}{11-3}$
4.  $4(20 - 3)^2$
5.  $15-3 \times 4$

Day 4. EVALUATE THE FOLLOWING EXPRESSIONS.WHEN  $r = 4$  AND  $s = 6$

1.  $3.5s+r$
2.  $(r+1)^2 - s$
3.  $4r + s^2$
4.  $2(r^2-15)$
5.  $s^2 + r^2$

## WEEK 4.

Day 1 Plot the point in a coordinate plane. Describe the location of the point.



1. A (0, 5)
2. B (-1, 0)
3. C (-4, -3)

Day 2. FIND THE PERCENTS OF EACH NUMBER USING THE DECIMAL METHOD

1. 75% of 32
2. 24% of 200
3. 11% of 3
4. 30% of 32
5. 83% of 32

**Day 3. For the given expression, identify the terms, like terms, coefficients, and constant terms then simplify the expression.**

1)  $5x + 3 + 8x$

2)  $-7b + 4 + b - 10$

3)  $5 + 8w - 6 - w$

**Simplify each variable expression**

1)  $4x + 3x$

2)  $3(2y + 4y)$

3)  $-w + 4 - (3w - 13)$

**Day 4. GIVE THE ABSOLUTE VALUE FOR EACH EXPRESSION.**

1.  $|1|$

2.  $|-10|$

3.  $|8|$

4.  $|10|$

## WEEK 5.

Day 1. Solve each decimal equation.

1.  $x + 5 = 7.4$

2.  $x - 3 = 2.4$

3.  $x + 5 = 11.2$

4.  $x - 10 = 7.3$

Day 2. SOLVE EACH PROPORTION USING THE CROSS MULTIPLICATION METHOD.

1.  $\frac{3}{4} = \frac{42}{x}$

2.  $\frac{5}{6} = \frac{y}{2}$

3.  $\frac{12}{a} = \frac{13}{5}$

4.  $\frac{b}{20} = \frac{15}{3}$

Day 3. FIND EACH PRODUCT OR QUOTIENT, IF POSSIBLE SIMPLIFY EACH FRACTION

1.  $\frac{3}{5} \times \frac{1}{2}$

2.  $\frac{7}{9} \times \frac{1}{3}$

3.  $\frac{5}{6} \times \frac{2}{8}$

4.  $3\frac{1}{4} \times \frac{6}{7}$



## WEEK 6.

Day 1. Write each inequality and words then graph them.

Inequality	Words	Graph
$x < 3$		
$m > 2$		
$z \leq -1$		
$j \geq 31$		

Day 2. Solve each inequality by adding or subtracting graphs your answer (Show all steps)

1)  $216 > u - 100$

2)  $p + 2 \geq -3$

3)  $x + 3 \geq 3$

Day 3. Solve each inequality by Multiplying and Dividing Graph your answer show all steps

1)  $\frac{y}{3} < -12$

2)  $-9x \leq 90$

3)  $65 \leq 13x$

Day 4. DIVIDE THE FOLLWING INTEGERS

1.  $18 \div (-2)$

2.  $-12 \div (-4)$

3.  $\frac{-32}{-8}$

4.  $\frac{25}{-5}$

## WEEK 7.

Day 1. Write the prime factors of each number

1. 75

2. 25

3. 36

Day 2. Factor the monomial

1.  $36a^4b^2$

2.  $42x^4y$

3.  $15r^2s^2$

Day 3. Find the product and write your answer using exponents)

1.  $3^2 \cdot 2^4$

2.  $6b^2 \cdot 20b^4$

Day 4 Write the expressions using only positive exponents (2pts each)

1.  $8^{-4}$

2.  $15c d^{-8}$

## WEEK 8.

**Day 1** Find the square roots of each number (2pts each)

1. 25

2. 36

3. 64

**Day 3.** Find the absolute value

1.  $|-2|$

2.  $|5|$

3.  $|-9|$

4.  $|-78|$

5.  $|9|$

**Day 4.** Write each number in scientific notation (2pts each)

1. 4,100

2. 0.000057

3. 31,600,000

4. 0.0000245

**Day 5. Write each number in standard form (2pts each)**

1.  $7.1 \times 10^4$

2.  $1.91 \times 10^{-3}$

3.  $1.85 \times 10^6$

# FROEBEL

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