



FRÖEBEL

FRIEDRICH FROEBEL BILINGUAL SCHOOL

2018 SUMMER MATHEMATIC SKILLS SHARPENER GOING TO NINTH GRADE

CELEBRATING 36 YEARS OF BUILDING THE FUTURE OF OUR YOUTH!



2018 SUMMER MATHEMATIC SKILLS SHARPENER GOING TO NINTH GRADE

STUDENT'S NAME	DATE
TEACHER COMING FROM	SCORE
TEACHER GOING TO	
PARENT'S SIGNATURE	DATE RECEIVED

SKILLS SHARPENER GOING NINTH GRADE

SCORE - ___/___

WEEK1.

DAY 1. ADD THE FOLLOWING POSITIVE AND NEGATIVE INTEGERS.

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

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

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

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

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 EXCERCISES.

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

$$\begin{array}{r} -43 \\ \times -13 \\ \hline \end{array}$$

$$\begin{array}{r} -87 \\ \times -96 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ \times - 3 \\ \hline \end{array}$$

$$\begin{array}{r} -5215 \\ \times \quad -5 \\ \hline \end{array}$$

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. $s^2 + r^2$

WEEK2.

DAY 1. SOLVE THE FOLLOWING EQUATIONS BY ADDING AND SUBTRACTING.

1. $x+5=20$

2. $y-3=-2$

3. $\frac{1}{7}=g+\frac{3}{7}$

4. $-13+r=30$

5. $-2=x+6$

6. $\frac{1}{6}=\frac{1}{4}+w$

DAY 2. SOLVE THE FOLLOWING MULTIPLYING OR DIVIDING.

1. $\frac{t}{4} = -6$

2. $\frac{a}{17} = -8$

3. $-7y = 135$

4. $\frac{a}{-17} = -17$

5. $-95 = 5b$

6. $301 = 43b$

DAY 3. FIND THE SLOPE OF THE BY USING RISE OVER RUN

1. $(4,-2)$ and $(-1,2)$

2. $(-2,-2)$ and $(7,-2)$

3. $(5,-7)$ and $(6,-4)$

4. $(\frac{3}{4}, \frac{7}{5})$ and $(\frac{1}{4}, \frac{2}{5})$

DAY 4. Write each inequality and words then graph them.

Inequality	Words	Graph
$x < 2$		
$m > 5$		
$z \leq 1$		
$j \geq 31$		

WEEK 3.

DAY 1. SOLVE EACH MULTI-STEP EQUATION

1. $2m + 1 = 13$

2. $4(x + 2) = 6$

3. $\frac{1}{4}x + \frac{2}{3} = \frac{3}{4}$

4. $2d + 21 = 11$

5. $3j + 41 = 35$

DAY 2. ADD FINDING THE SUM OF THE POLYNOMIALS BY COMBINING LIKE TERMS

1. $(3y + 2) + (6y + 9)$

2. $(4z + 8) + (2z - 5)$

3. $(3x + 2a) + (x + 3a)$

4. $(2m + 4) + (6 + 6m)$

5. $(10x + 2y) + 3y$

DAY 4. Plot the point in a coordinate plane. Describe the location of the point (2pts each).

1. A(0,5)

2. B(-1,0)

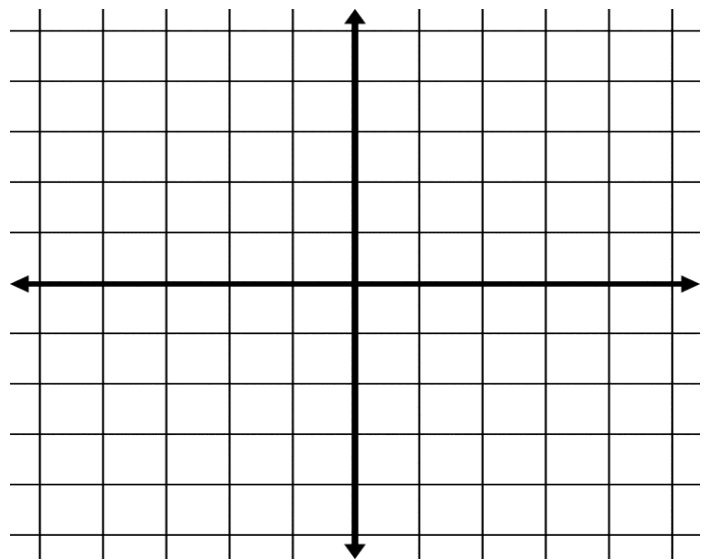
3. C(-4,-3)

4. D(2,-5)

5. E. (4,4)

6) F.(2,2)

7) (3,-5)



WEEK 4.

DAY 1. 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) $5 + 8w - 6 - w$

DAY 3. Simplify each variable expression

1) $4x + 3x$

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

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

DAY 4. Solve each equation containing parenthesis and like terms check your answer

1) $6 = -2(7 - c)$

2) $5x - 2(x - 1) = 8$

3) $3n - 40 + 2n = 15$

4) $4(x + 5) = 16$

WEEK 5.

DAY 1. SOLVE THE FOLLOWING MULTISTEP EQUATIONS BY COMBINING LIKE TERMS

1. $6x + 12 = 106$

2. $8x + 2x + 5 = 125$

3. $\frac{3}{4}x + \frac{1}{2} = \frac{7}{8}$

4. $3x = 45$

DAY 2. 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. $3\frac{1}{4} \times \frac{6}{7}$

DAY3. EVALUATE EACH EXPRESSION IF $x = 4$, $y = 6$, and $z = 3$.

1. $x + y + z$

2. $3x + y$

3. $x - z$

4. $x + y - 3z$

5. $15z$

DAY 4. FIND THE SUM AND DIFFERENCE OF EACH FRACTION

1. $\frac{1}{4} + \frac{1}{4}$

2. $\frac{5}{8} - \frac{1}{2}$

3. $\frac{4}{5} - \frac{2}{7}$

4. $\frac{1}{4} + \frac{1}{8}$

WEEK 6.

DAY 1. Solve each inequality by adding or subtracting graph your answer

1) $216 > u + 100$

2) $p + 2 \geq -3$

3) $x + 3 \geq -3$

4) $-45 \geq g - 16$

DAY 2. Solve each inequality by Multiplying and Dividing Graph your answer

1) $\frac{Y}{3} < -83$

2) $-9x \leq 136$

3) $65 \leq 13$

4) $4m < -60$

DAY 3. Solve each Multistep inequality graph your answer

1) $45 + 2b > 61$

2) $2y + 7 \geq 11$

3) $10 > 6 + \frac{Y}{5}$

4) $3 + \frac{b}{5} \geq 7$

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

1. 0.7×8.4

2. $11.4 \div 0.7$

3. $12.5 + 8.23$

4. $7.25 + 5.45$

5. $6 \div 0.8$

WEEK 7.

DAY 1. CONVERT THE FOLLOWING FRACTIONS INTO DECIMALS.

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

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

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

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

DAY 2. WRITE THE FOLLOWING FRACTIONS AS MIXED NUMBERS.

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

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

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

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

DAY 3. Factor the monomial

1. $36a^4b^2$

2. $42x^4y$

3. $15r^2s^2$

4. $72w^6z$

DAY 4. Solve each equation show all steps (4 pts each)

1. $\frac{4}{7}s = -12$

2. $\frac{5}{6}m = -20$

WEEK 8.

DAY 1. Graph

1. $y = 3x - 1$

X= z, 2,3,4,5

DAY 2. Find the x and y intercepts from the given equations

1. $3x - 7y = 21$

2. $5x - 2y = 10$

DAY 3. MULTIPLY THE FOLLOWING INTEGERS.

1. $-5(4)$

2. $-3(-6)$

3. $4(-9)$

4. $-15(-2)$

DAY 4. DIVIDE THE FOLLOWING INTEGERS

1. $18 \div (-2)$

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

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

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

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