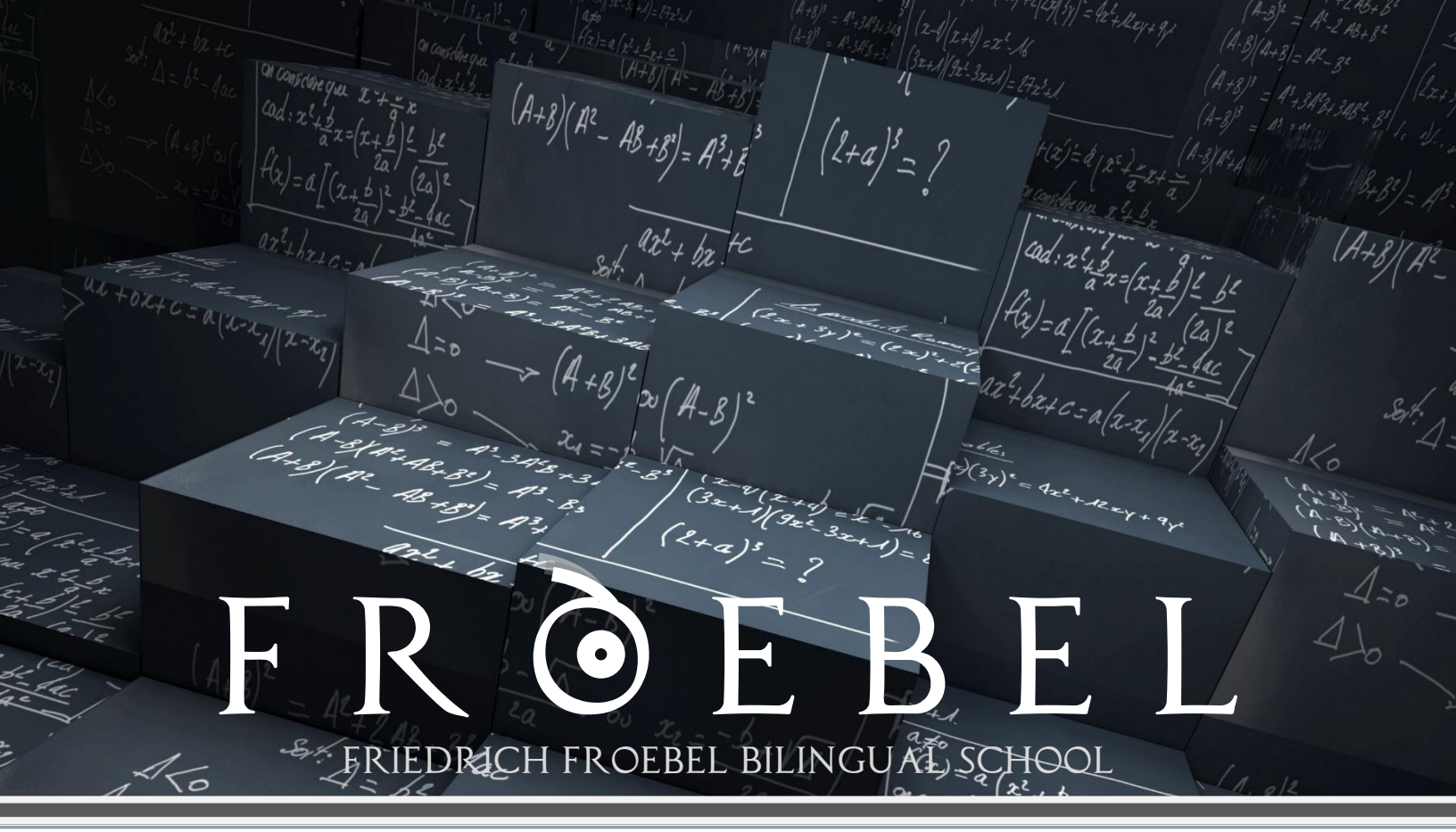


FROEBEL

FRIEDRICH FROEBEL BILINGUAL SCHOOL

2018 SUMMER MATHEMATIC SKILLS SHARPENER

GOING TO TENTH GRADE

CELEBRATING 36 YEARS OF BUILDING THE FUTURE OF OUR YOUTH!

2018 SUMMER MATHEMATIC SKILLS SHARPENER

GOING TO TENTH GRADE

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

SKILLS SHARPENER GOING TO TENTH GRADE

SCORE - ___/____

WEEK I.

DAY 1. ADD THE FOLLOWING INTEGERS.

1. $-10 + 4$
2. $-3 + (-7)$
3. $12 + (-4)$
4. $-16 + (-3)$

DAY 2. SUBTRACT THE FOLLOWING INTEGERS.

1. $15 - 18$
2. $-2 - (-5)$
3. $14 - (-3)$
4. $-12 - 2$

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

WEEK II.

DAY 1.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. $s^2 + r^2$

DAY 2. 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 3. SOLVE THE FOLLOWING EQUATIONS

1. $15 - 3x = 3$
2. $-2x + 8 = -12$
3. $-9 = x + 4$
4. $-\frac{x}{4}$
5. $X + 5 = 7$

DAY 4. SOLVE THE MULTISTEP EQUATIONS BY COMBINING LIKE TERMS

1. $2(3x + 2) = 106$

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

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

WEEK III.

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

1. x+5＝20
2. y- 3＝-2
3. $\frac{1}{5}$ ＝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 MULTIPLING 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

WEEK IV

DAY 1.EVALUATE EACH EXPRESSION IF$x = 4$, $y = 6$, and $z = 3$.

1. $x + y + z$

2. $3x + y$

3. $x - z$

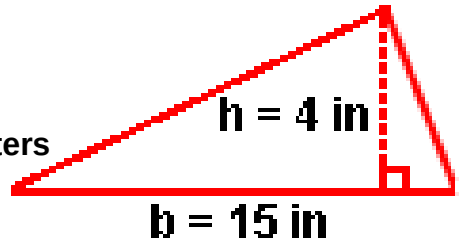
4. $x + y - 3z$

5. $15z$

DAY 3. FIND THE AREA OF EACH TRIANGLE

1. Find the area of an acute triangle with a base of 15 inches and a height of 4 inches.

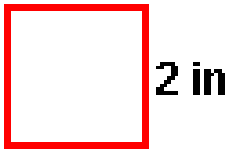
2. Find the area of a right triangle with a base of 6 centimeters and a height of 9 centimeters



3. Find the area of an obtuse triangle with a base of 5 inches and a height of 8 inches.

Day 4. FIND THE AREA OF RECTANGLE

1. Find the area of a square with each side measuring 2 inches.



DAY 5. SIMPLIFY EACH EXPRESSIONBY MULTIPLYING EACH EXPRESSION.

1. $(5x^2)(4x^3)$
2. $(2m^2n^8)(2m\,n^9)$
3. $(2n^8)(n^9)$
4. $(2x^8)(4xy^9)$

WEEK V.

Day 1. CLASSIFY EACH POLYNOMIAL ACCORDING TO ITS DEGREE AND NUMBER OF TERMS.

1. $6n^3 + 8n$
2. $4y^6 - 5y^3 + 2y - 9$
3. $x^2 + 2x + 3$

DAY 2.EVALUATE THE FOLLOWING EXPRESSIONS.WHEN r = 2 AND s = 3

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

DAY 3. FIND THE DEGREE OF EACH MONOMIAL

1. $4a^7b^3$
2. 8ed
3. 5

DAY 4. SIMPLIFY

1. $5x^{-4}$

2. $\frac{-9}{k^{-2}}$

3. $\frac{a^0b^{-2}}{c^{-3}d^6}$

WEEK VI.

DAY 1. WRITE THE FOLLOWING FRACTIONS AS MIXED NUMBERS.

$\frac{5}{3}$ = $\frac{10}{4}$= $\frac{9}{4}$ = $\frac{25}{4}$ =

DAY 2. Graph each function for the given domain (5pts each)

1. $f(x) = \frac{1}{3}x + 2,$

$X = -3, 03, , 6$

2. $f(x)x^2 =$

$x = -2, -1, 0, 1, 2$

3. $y = 3x + 7$

$x = -2, -1, 0, 1, 2$

DAY 3. ADD AND SUBTRACT THE FOLLOWING FRACTIONS.

$\frac{1}{2} + \frac{1}{2} =$ ____ $\frac{4}{6} + \frac{3}{8} =$ ___ $\frac{3}{10} + \frac{2}{5} =$ ____ $\frac{4}{6} - \frac{2}{3} =$ ____

WEEK VII.

DAY 1. ADD OR SUBTRACT

1. $(4m^2 + 5) + (m^2 - m + 6)$

2. $(7m^4 - 2m^2) - (5m^4 - 5m^2 + 8)$

DAY 2. SUBTRACT THE FOLLOWING INTEGERS.

1. $1 - 18$ 2. $-3 - (-5)$ 3. $7 - (-3)$ 4. $-12 - 2$

DAY 3. MULTIPLY THE FOLLOWING INTEGERS.

1. $-44(4)$ 2. $-20(-6)$ 3. $-233(-9)$ 4. $-15(-2)$

DAY 4. DIVIDE THE FOLLWING INTEGERS

1. $188 \div (-2)$ 2. $-132 \div (-4)$ 3. $\frac{-32}{-8}$ 4. $\frac{25}{-5}$

WEEK VIII

ADD THE FOLLOWING INTEGERS.

1. $-10 + 4$
2. $-3 + (-7)$
3. $12 + (-4)$
4. $-16 + (-3)$

DAY 2. SUBTRACT THE FOLLOWING INTEGERS.

1. $15 - 18$
2. $-2 - (-5)$
3. $14 - (-3)$
4. $-12 - 2$

DAY 3. MULTIPLY THE FOLLOWING INTEGERS.

1. $-5(4)$
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DAY 4. DIVIDE THE FOLLWING INTEGERS

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FRIEDRICH FROEBEL BILINGUAL SCHOOL

HANGAR ROAD 523, 524, RAMEY BASE

Box 250641, Z.C. 00604-0641

Phones: 890-2544 / 890-0520