



FRÖEBEL

FRIEDRICH FROEBEL BILINGUAL SCHOOL

# 2018 SUMMER MATHEMATIC SKILLS SHARPENER GOING TO SEVENTH GRADE

CELEBRATING 36 YEARS OF BUILDING THE FUTURE OF OUR YOUTH!



# 2018 SUMMER MATHEMATIC SKILLS SHARPENER GOING TO SEVENTH 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>

# WEEK 1. MATH

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

DAY 1. WRITE THE SUM FOR THE FOLLOWING EXERCISES.

a. 
$$\begin{array}{r} 17 \\ 38 \\ 29 \\ + 46 \\ \hline \end{array}$$

b. 
$$\begin{array}{r} 5,542 \\ 8,709 \\ + 6,395 \\ \hline \end{array}$$

c. 
$$\begin{array}{r} 283,265 \\ + 591,879 \\ \hline \end{array}$$

d. 
$$\begin{array}{r} \$54.88 \\ 79.59 \\ 67.77 \\ + 28.08 \\ \hline \end{array}$$

e.  $4 + 11 + 7 + 6 + 10 + 5 + 7 + 4 =$

DAY 2. WRITE THE DIFFERENCE FOR THE FOLLOWING EXERCISES.

a. 
$$\begin{array}{r} 501 \\ - 297 \\ \hline \end{array}$$

b. 
$$\begin{array}{r} 1,200 \\ - 970 \\ \hline \end{array}$$

c. 
$$\begin{array}{r} 6,350 \\ - 4,847 \\ \hline \end{array}$$

d. 
$$\begin{array}{r} 63,204 \\ - 18,293 \\ \hline \end{array}$$

e. 
$$\begin{array}{r} 140,000 \\ - 97,065 \\ \hline \end{array}$$

DAY 3. WRITE THE PRODUCTS FOR THE FOLLOWING EXERCISES.

a. 
$$\begin{array}{r} 19 \\ \times 5 \\ \hline \end{array}$$

b. 
$$\begin{array}{r} 325 \\ \times 46 \\ \hline \end{array}$$

c. 
$$\begin{array}{r} 134 \\ \times 286 \\ \hline \end{array}$$

d. 
$$\begin{array}{r} 8,395 \\ \times 56 \\ \hline \end{array}$$

e. 
$$\begin{array}{r} 32,426 \\ \times 137 \\ \hline \end{array}$$

DAY 4.

A. WRITE THE QUOTIENT FOR THE FOLLOWING EXERCISES.

a.  $5 \overline{)985}$

b.  $25 \overline{)100}$

c.  $478 \overline{)5,921}$

d.  $5,029 \overline{)336,943}$

B. WRITE EACH NUMBER.

a. \_\_\_\_\_ 400 million, seven

c. \_\_\_\_\_ 632 billion, 16 thousand

b. \_\_\_\_\_ 3 billion, 78 million, 486 thousand, 712

## WEEK 2. MATH

Day 1. ROUND OFF THIS NUMBER: 7,452,693.

a. \_\_\_\_\_ nearest one hundred

d. \_\_\_\_\_ nearest one million

b. \_\_\_\_\_ nearest ten thousand

e. \_\_\_\_\_ nearest hundred

c. \_\_\_\_\_ nearest hundred thousand

f. \_\_\_\_\_ nearest ten

Day 2. WRITE THE ANSWERS.

a.  $6 \times 8 =$

b.  $54 \div 9 =$

c.  $8 + 9 =$

d.  $15 - 7 =$

e.  $108 \div 12 =$

Day 3. WRITE THE ANSWERS.

a.  $\_\_ + 51 = 104$

b.  $25 \times \_\_ = 200$

c.  $301 - \_\_ = 155$

d.  $\_\_ \div 5 = 12$

e.  $\_\_ - 5 = 100$

Day 4. A. WRITE THE ROMAN NUMERAL AND THE ARABIC NUMERAL.

*Roman*  
a. 382 \_\_\_\_\_

*Arabic*  
c. \_\_\_\_\_ LXXXIV

b. 9,000 \_\_\_\_\_

d. \_\_\_\_\_ MCDXCVI

B. SOLVE THE STORY PROBLEMS

a. The Quill family spent \$175 on school books for Heather and \$ 203 for Holt's books. How much less did Heather's books cost than Holt's?

b. The art/craft fee is \$9 per student in Miss Donovan's class. What is the total art/craft fee for 27 students?



## WEEK 3. MATH

### Day 1. FILL IN EACH BLANK.

- a. 1 gal. = \_\_\_\_ qt.                      b. 1 yd. = \_\_\_\_ ft.                      c. 1 lb. = \_\_\_\_ oz.  
d. 1 ft. = \_\_\_\_ in.                      e. 1 da. = \_\_\_\_ hr.                      f. 1 tbsp. = \_\_\_\_ tsp.  
g. 1 yr. = \_\_\_\_ da.                      h. 1 c. = \_\_\_\_ fl. oz.                      i. 1 tons = \_\_\_\_ lb.

### Day 2. CONVERT THESE MEASUREMENTS.

- a. 3 gal. = \_\_\_\_ qt.                      b. 5 yd. = \_\_\_\_ ft.                      c. 15 tsp. = \_\_\_\_ tbsp.  
  
d. 42 da. = \_\_\_\_ wk.                      e. 2 tons = \_\_\_\_ lb.                      f. 2 yr. = \_\_\_\_ da.

### Day 3. USE THE CHART TO CONVERT THESE METRIC MEASURES.

- | k                   | h                  | da                  | u | d | c | m |
|---------------------|--------------------|---------------------|---|---|---|---|
| a. 50 dag = ____ hg | b. 7 cm = ____ mm  | c. 5 kg = ____ g    |   |   |   |   |
| d. 25 cg = ____ mg  | e. 20 hm = ____ km | f. 15 kl = ____ dal |   |   |   |   |

### Day 4. A. FIND THE AVERAGE.

- |           |                       |        |       |
|-----------|-----------------------|--------|-------|
| a. \$3.29 | b. 97; 95; 96; 98; 94 | c. 784 | d. 63 |
| \$4.78    |                       | 659    | 85    |
| \$6.96    |                       | 750    | 77    |
|           |                       | 687    | 59    |

### B. SOLVE THE STORY PROBLEM.

- a. Sarah said that it is 31 days until her birthday. How many hours, minutes, and seconds until her birthday?

# WEEK 4. MATH

## Day 1. FOLLOW THE DIRECTIONS.

- A. \_\_\_\_\_ Write the number that is divisible by 5: 320 or 346.  
B. \_\_\_\_\_ Write the number that is divisible by 3: 814 or 801.  
C. \_\_\_\_\_ Write the number that is divisible by 2: 207 or 210.  
D. \_\_\_\_\_ Write the number that is divisible by 6: 5,412 or 3,735.  
E. \_\_\_\_\_ Write the number that is divisible by 4: 1,324 or 4,302.  
F. \_\_\_\_\_ Write the number that is divisible by 9: 610 or 612.

## Day 2. COMPLETE THIS CHART.

Numbers	Pairs of factors	Factors	Common factors	GCF
9	-----	-----		
12	-----	-----		
8	-----	-----		
20	-----	-----		
16	-----	-----		
24	-----	-----		

## Day 3. CHANGE TO IMPROPER FRACTIONS.

a.  $5 \frac{2}{9} =$

b.  $7 \frac{2}{5} =$

c.  $2 \frac{6}{11} =$

d.  $10 \frac{3}{4} =$

e.  $12 \frac{1}{6} =$

## Day 4.

### A. CHANGE TO MIXED OR WHOLE NUMBERS.

a.  $\frac{38}{9} =$

b.  $\frac{65}{9} =$

c.  $\frac{10}{2} =$

### B. REDUCE TO LOWEST TERMS.

a.  $\frac{6}{12} =$

b.  $\frac{18}{20} =$

c.  $\frac{25}{30} =$

## WEEK 5. MATH

### Day 1. ADD AND SIMPLIFY IF POSSIBLE.

a.  $\frac{8}{11}$

$$\begin{array}{r} + \frac{6}{11} \\ \hline \end{array}$$

b.  $\frac{5}{8}$

$$\begin{array}{r} + \frac{1}{8} \\ \hline \end{array}$$

c.  $\frac{4}{5}$

$$\begin{array}{r} + \frac{2}{10} \\ \hline \end{array}$$

d.  $2\frac{2}{5}$

$$\begin{array}{r} + 5\frac{1}{3} \\ \hline \end{array}$$

e.  $5\frac{1}{4}$

$$8\frac{2}{3}$$

$$\begin{array}{r} + 6\frac{1}{6} \\ \hline \end{array}$$

### Day 2. SUBTRACT AND SIMPLIFY IF POSSIBLE.

a.  $\frac{13}{15}$

$$\begin{array}{r} - \frac{7}{15} \\ \hline \end{array}$$

b.  $1\frac{5}{8}$

$$\begin{array}{r} - \frac{3}{8} \\ \hline \end{array}$$

c.  $2\frac{5}{9}$

$$\begin{array}{r} - 1\frac{1}{3} \\ \hline \end{array}$$

d.  $16\frac{4}{7}$

$$\begin{array}{r} - 8\frac{11}{14} \\ \hline \end{array}$$

e.  $23\frac{1}{6}$

$$\begin{array}{r} - 15\frac{2}{3} \\ \hline \end{array}$$

### Day 3. MULTIPLY, SIMPLIFY, AND CANCEL IF POSSIBLE.

a.  $\frac{2}{5} \times \frac{5}{6} =$

b.  $16 \times \frac{3}{8} =$

c.  $\frac{3}{5} \times 4\frac{2}{3} =$

d.  $7\frac{1}{2} \times 1\frac{1}{6} =$

e.  $3\frac{1}{3} \times 2\frac{1}{2} =$

### Day 4.

#### A. DIVIDE, SIMPLIFY, AND CANCEL IF POSSIBLE.

a.  $\frac{2}{5} \div \frac{4}{5} =$

b.  $9 \div \frac{3}{4} =$

c.  $8\frac{3}{4} \div 6\frac{2}{3} =$

#### B. SOLVE THE STORY PROBLEM.

- a. Tina bought  $4\frac{1}{5}$  pounds of chocolate. She gave  $2\frac{2}{3}$  pounds to her cousin. How many pounds of chocolate do she have left?

# WEEK 6. MATH

Day 1. WRITE THESE FRACTIONS AS DECIMALS.

a.  $\frac{7}{10} =$

b.  $\frac{35}{100} =$

c.  $\frac{19}{100} =$

d.  $\frac{86}{10} =$

e.  $\frac{675}{1,000} =$

Day 2.

A. WRITE  $>$  OR  $<$  IN EACH BLANK.

a.  $.7$  \_\_\_  $.711$

b.  $.51$  \_\_\_  $.502$

c.  $.16$  \_\_\_  $1.61$

d.  $8.3$  \_\_\_  $8.31$

B. WRITE THE ANSWERS.

a. 
$$\begin{array}{r} 1,603.2 \\ - 978.41 \\ \hline \end{array}$$

b. 
$$\begin{array}{r} .002 \\ \times .004 \\ \hline \end{array}$$

c.  $.97 \overline{)1.1067}$

e.  $2.8 \overline{)14.308}$

Day 3. ROUND OFF 7.83652

a. \_\_\_\_\_ Nearest tenth

b. \_\_\_\_\_ Nearest hundredth

c. \_\_\_\_\_ Nearest thousandth

d. \_\_\_\_\_ Nearest ten thousandth

Day 4.

A. WRITE THESE PERCENTS AS FRACTIONS AND THEN AS DECIMALS.

a.  $26\% =$

b.  $6\% =$

c.  $15\% =$

d.  $75\% =$

d.  $8\% =$

e.  $40\% =$

B. WRITE EACH DECIMAL AS A PERCENT.

a.  $.13 =$

b.  $.9 =$

c.  $.67 =$

d.  $.99 =$



## WEEK 7. MATH

Day 1. FIND THE PERCENTAGE OF EACH NUMBER.

a. 12% of 88 =

b. 25% of 156 =

c. 50% of 318 =

d. 8% of 25 =

e. 54% of 906 =

Day 2. FIND THE PERCENTAGES; CHANGE THE FRACTION AND THE PERCENT TO A DECIMAL.

a.  $16\frac{3}{4}$  of 83 =

b.  $12\frac{1}{2}$  of 240 =

c.  $3\frac{1}{4}$  of 75 =

Day 3. FIND THE DISCOUNTS; COMPLETE THE CHART.

Item	List Price	Rate of Discount	Amount of Discount	Sale Price
shoes	\$85	25%		
shirt	\$30	15%		
video game	\$69	50%		

Day 4. USE THE PROPER FORMULAS TO FIND THE PERIMETERS.

a. rectangle  
 $l = 19$  ft.;  $w = 13$  ft.

b. triangle  
 $a = 19$  in.  $b = 17$  in.  $c = 18$  in.

c. square  
 $s = 4\frac{1}{2}$  ft.

d. parallelogram  
 $l = 9.4$  m;  $w = 6.7$  m

## WEEK 8. MATH

Day 1. WRITE THE FORMULAS.

a. \_\_\_\_\_ area of a square

b. \_\_\_\_\_ area of a rectangle

b. \_\_\_\_\_ area of a parallelogram

d. \_\_\_\_\_ area of a triangle

Day 2. USE THE FORMULAS TO FIND THE AREA.

a. square  
 $s = 3\frac{1}{2}$  ft.

b. rectangle  
 $l = 8$  yd.;  $w = 5$  yd.

c. parallelogram  
 $b = 23.1$  m;  $h = 17.8$  m

c. triangle  
 $b = 24$  ft.;  $h = 17$  ft.

Day 3. USE THE CORRECT ORDER OF OPERATIONS TO SOLVE THE FOLLOWING.

a.  $12 \div (4 + 2) \times 3$       b.  $4^2 + 17 - 3^2$       c.  $11 \cdot 2 + \frac{6}{3}$       d.  $5 \times (8 + 9)$       e.  $\frac{5 \cdot 6 + 5^2}{3}$

Day 4.

A. SOLVE AND CHECK THESE EQUATIONS.

a.  $x + 6 = 9$       b.  $3x = 6^2$       c.  $2x - 1 = 7$       d.  $\frac{x}{5} = 5 \cdot 2 + 3$       e.  $x + 8 = 4 + 5 \cdot 7$

B. SOLVE THE STORY PROBLEM.

a. The Ramirez plan to add a privacy fence around the swimming pool in their backyard. The rectangular fence will be 40 feet by 50 feet. Find the perimeter of the fence.

# F R O E B E L

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