

FROEBEL BILINGUAL SCHOOL



**SKILLS
SHARPENERS**

MATH

8

Singapore Math Summer Workbook
For Students Going to Eighth Grade

8



2019 SUMMER

Mathematic

Skills sharpener

GOING TO EIGHTH GRADE

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

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.

$$\frac{\quad}{5 \text{ / } -50}$$

$$50 \div 2$$

$$\frac{-45}{5}$$

WEEK 2.

Day1. ADD AND SUBTRACT THE FOLLOWING FRACTIONS.

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

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

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

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

Day2. CONVERT THE FOLLOWING FRACTIONS INTO DECIMALS.

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

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

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

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

Day3. WRITE THE FOLLOWING FRACTIONS AS MIXED NUMBERS.

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

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

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

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

Day4. 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 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.

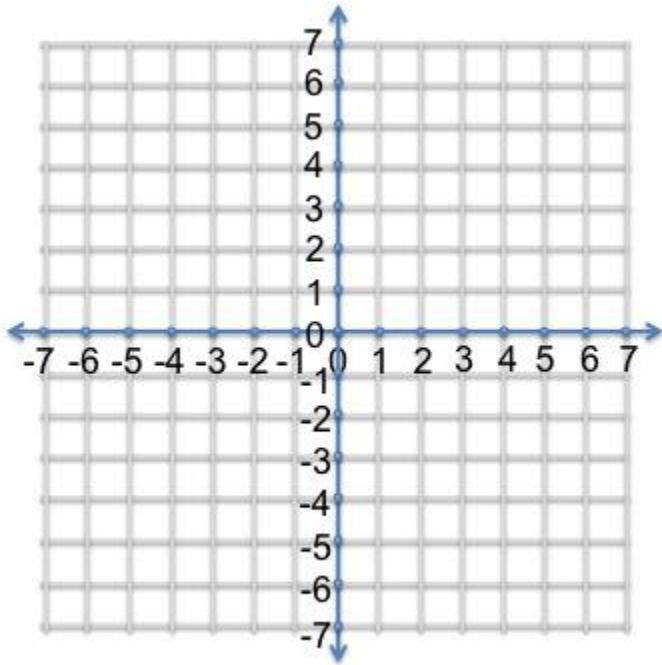
1. $18-3 \times 2$
2. $27 \div 3 + 6$
3. $\frac{20+12}{11-3}$
4. $4(20 - 3)^2$
5. $15-3 \times 4$

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. $3^2 * 2^4$

2. $6b^2 * 20b^4$

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 2. Find the absolute value

1. $|-2|$

2. $|5|$

3. $|-9|$

4. $|-78|$

5. $|9|$

Day 3. Write each number in scientific notation (2pts each)

1. 4,100

2. 0.000057

3. 31,600,000

4. 0.0000245

Day 4. Write each number in standard form(2pts each)

1. 7.1×10^4

2. 1.91×10^{-3}

3. 1.85×10^6

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