

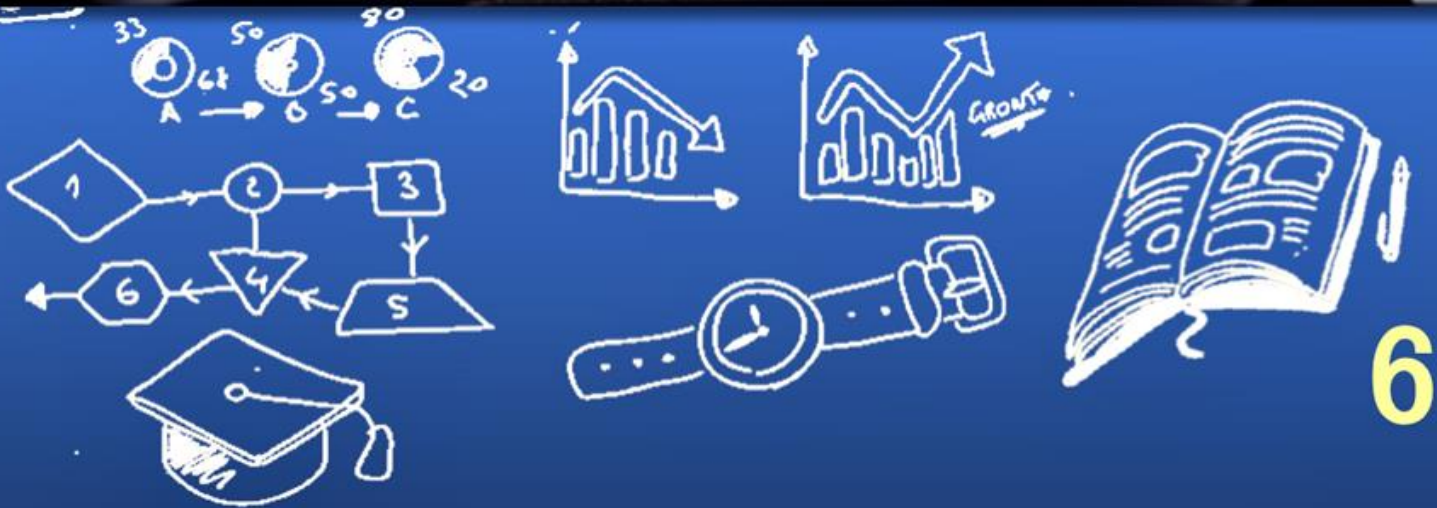


A STEM SCHOOL
FROEBEL BILINGUAL SCHOOL
HOME OF THE SPACE GENERATION



MATH SKILLS SHARPENERS

MATH SUMMER WORKBOOK



A STEM School

FROEBEL
BILINGUAL SCHOOL

Home of the Space Generation



2024 SUMMER MATH SKILLS SHARPENER Going to Sixth Grade

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

SKILLS SHARPENER FOR SIXTH GRADE MATH

WEEK 1.

Day 1. Write the following numbers in words.

a) 603,804 _____

b) 8,703,000 _____

c) 29,900,909 _____

Write the words in figures.

d) Nine million, five hundred four thousand

e) Sixty-eight million, twenty-seven thousand, three hundred

Day 2. Write the value of each number.

a) $100,000 + 80,000 + 4,000 + 900 =$ _____

b) $6,000,000 + 32,000 + 807 =$ _____

c) $40,000,000 + 20,000 + 97 =$ _____

Arrange numbers in **decreasing** order.

64,748 76,435 87,660 60,083 76,354
_____, _____, _____, _____, _____

Arrange numbers in **increasing** order.

5,869,011 5,968,007 5,698,000 5,896,300 5,689,024
_____, _____, _____, _____, _____

Day 3. Round off numbers

Round off each number to the nearest 10.

a) 86 _____

b) 348 _____

c) 16,496 _____

Round off each number to the nearest 100.

a) 642 _____

b) 955 _____

c) 39,745 _____

Round off each number to the nearest 1000.

a) 7680 _____

b) 5672 _____

c) 893,498 _____

Day 4. Add or subtract then estimate the value of each of the following:

a) $9286 + 5915 =$

e) $49,628 + 6925 =$

b) $7365 - 2536 =$

f) $35,627 - 7243 =$

c) $6831 + 8450 =$

g) $9802 - 7 =$

d) $6293 + 9 =$

h) $2639 - 3 =$

WEEK 2.

Day 1. Multiply by tens, hundreds, or thousands.

$356 \times 100 =$ _____

$69 \times 1000 =$ _____

$7500 \times 10 =$ _____

$704 \times 100 =$ _____

Divide by tens, hundreds, or thousands.

$920000 \div 10 = \underline{\hspace{2cm}}$

$6050 \div 10 = \underline{\hspace{2cm}}$

$18,000 \div 1000 = \underline{\hspace{2cm}}$

$23,000 \div 100 = \underline{\hspace{2cm}}$

Day 2. Find the quotient and remainder for each of the following.

$393 \div 4 =$

$731 \div 8 =$

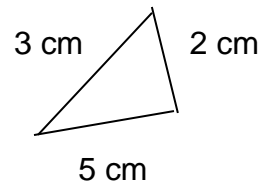
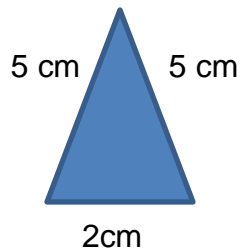
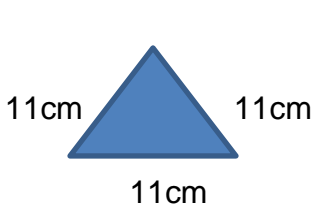
$327 \div 6 =$

$418 \div 5 =$

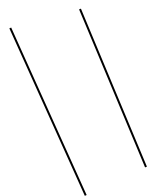
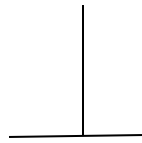
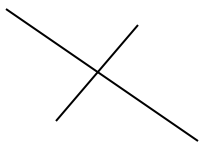
$142 \div 3 =$

$912 \div 7 =$

Day 3. Write the word equilateral, isosceles, or scalene



Day 4. Identify if the pair of lines is perpendicular or parallel



WEEK 3.

Day 1. Find the sums for these decimals

$$\begin{array}{r} 7.23 \\ + 13.58 \\ \hline \end{array} \quad \begin{array}{r} 6.5 \\ + 3.96 \\ \hline \end{array} \quad \begin{array}{r} 17.59 \\ + 7.658 \\ \hline \end{array} \quad \begin{array}{r} 8.69 \\ + .54 \\ \hline \end{array} \quad \begin{array}{r} 15.87 \\ + 23.3 \\ \hline \end{array}$$

Write the following as a decimal

a) $\frac{6}{10}$ b) $\frac{97}{10}$ c) $\frac{61}{100}$ d) $\frac{129}{100}$

e) $12\frac{9}{10}$ f) $5\frac{21}{100}$ g) $13\frac{45}{100}$

Day 2. Fill in the boxes

a) $\frac{1}{6} = \frac{\square}{12}$

b) $\frac{4}{12} = \frac{1}{\square}$

c) $\frac{2}{3} = \frac{8}{\square}$

d) $\frac{3}{4} = \frac{\square}{12}$

Day 3. Write the fraction in its simple's form

a) $\frac{4}{8} =$

b) $\frac{3}{9} =$

c) $\frac{16}{24} =$

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

Day 4. Write each of the improper fractions as a mixed number in its simple's form

a) $\frac{41}{8}$

b) $\frac{67}{4}$

c) $\frac{35}{10}$

d) $\frac{15}{7}$

e) $\frac{38}{6}$

WEEK 4.

Day 1. Understanding ratio. Answer the word problems.

1. Claire makes orange juice using orange syrup and water in a ratio 1:3. If she uses 2 liters of orange syrup, how much water will Claire need?

2. To cook porridge, Maria uses 5 parts of water for every part of rice.
 - a. What is the ratio of rice used to water used in the porridge? _____
 - b. The amount of water used in the porridge is _____ times as much as the amount of rice used in the porridge.
 - c. Complete the table bellow

Number of cups of water	5	?	30	?
Number of cups of rice	1	3	?	8

Day 2. Work out these mentally

$34 + 65 = \underline{\hspace{2cm}}$

$21 + 32 = \underline{\hspace{2cm}}$

$9000 + 35 = \underline{\hspace{2cm}}$

$54 - 23 = \underline{\hspace{2cm}}$

$76 - 42 = \underline{\hspace{2cm}}$

$156 - 123 = \underline{\hspace{2cm}}$

$6 \times 6 = \underline{\hspace{2cm}}$

$8 \times 9 = \underline{\hspace{2cm}}$

$900 \times 3 = \underline{\hspace{2cm}}$

$56 \div 7 = \underline{\hspace{2cm}}$

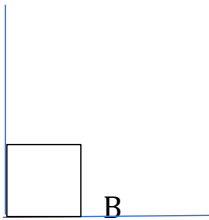
$81 \div 9 = \underline{\hspace{2cm}}$

$30 \div 6 = \underline{\hspace{2cm}}$

Day 3. Find the unknown Angles.

a)

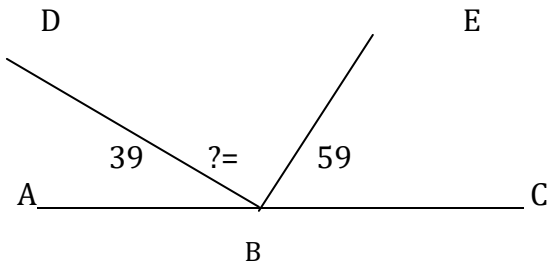
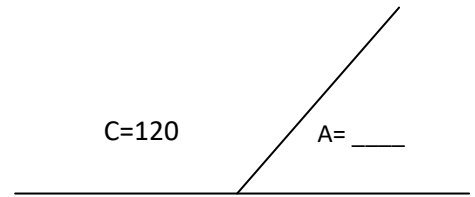
B =



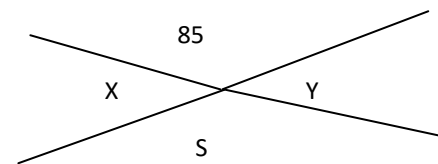
b)

C = 120

A =



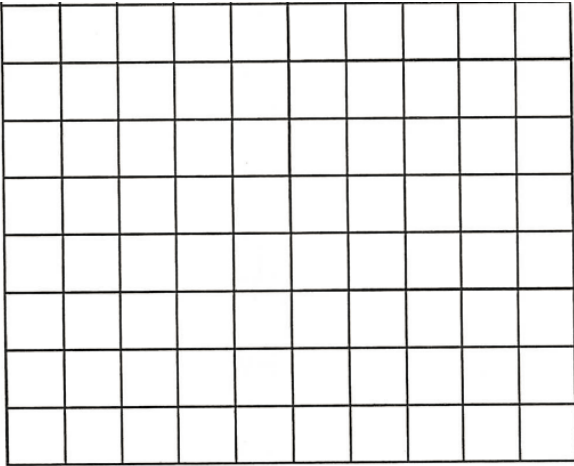
Find $\angle DBE = \underline{\hspace{2cm}}$



Find X = Y = S =

Day 4. Mark and label these points on the grid below.

A (2,2) B (3,1) C (5, 1) D (6, 2) E (6,4) F (5,5)



WEEK 5.

Day 1. Convert these measurements

2.45 m = _____ cm

_____ l = 5230 ml

0.6 kg = _____ g

_____ km = 7430 m

9.2 l = _____ ml

6.05 km = _____ m

Fill in the blanks with > or <.

a) 5006 ml _____ 5.06 l

b) 81 cm _____ 0.8 m

c) 1.7 km _____ 1177 m

d) 4600 g _____ 0.46 kg

e) 0.4 kg _____ 4 kg 4 g

f) 9.9 km _____ 9km 99m

Day 2. Find the value of each of the following.

25% of 612=

43% of 900 =

77% of \$800=

2% of 450m =

51% of 200 ml =

96% of 50 kg=

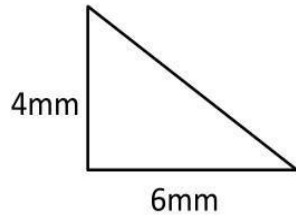
Day 3. The timetable show how Tom spent part of her day yesterday. Use it to answer the questions that follow.

Time	Activity
1330	Take a shower
1350	Have lunch
1430	Do homework
1630	Practice the violin
1715	Watch television
1820	Read the newspaper

1. What time did Tom start eating her lunch?
2. How long did Tom take to shower?
3. If he spent 40 minutes reading the newspaper, what time did he stop reading the newspapers?
4. How much longer did Tom spend doing his homework than watching television?

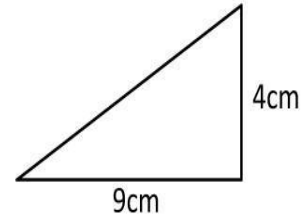
Day 4. Find the area of each triangle.

a)



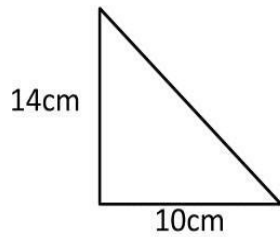
Area = _____ mm²

b)



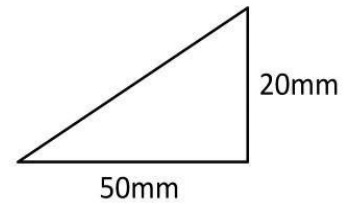
Area = _____ cm²

c)



Area = _____ cm²

d)



Area = _____ mm²

WEEK 6.

Day 1. Divide round off the answer to 2 decimal places.

$52.78 \div 5$

$0.465 \div 2$

$9.29 \div 6$

$20.23 \div 3$

Day 2. Write each fraction as a decimal correct to 2 decimal places.

a) $\frac{3}{8} \approx$

b) $\frac{4}{9} \approx$

c) $5\frac{3}{7} \approx$

d) $8\frac{1}{6} \approx$

Day 3. Multiply by tens, hundreds, or thousands.

a) $69.29 \times 1000 =$ _____

b) $0.278 \times 10 =$ _____

c) $0.141 \times 100 =$ _____

d) $3.24 \times 2000 =$ _____

e) $5.12 \times 400 =$ _____

Day 4. Divide by tens, hundreds, or thousands.

a) $19.1 \div 100 =$ _____

b) $39.11 \div 1000 =$ _____

c) $0.075 \div 10 =$ _____

d) $6.88 \div 400 =$ _____

e) $9.5 \div 5000 =$ _____

WEEK 7.

Day 1. Multiply these decimals

$$\begin{array}{r} 0.65 \\ \times 97 \\ \hline \end{array}$$

$$\begin{array}{r} 8.15 \\ \times 55 \\ \hline \end{array}$$

$$\begin{array}{r} 14.36 \\ \times 49 \\ \hline \end{array}$$

$$\begin{array}{r} 6.92 \\ \times 84 \\ \hline \end{array}$$

Day 2. Express each fraction as a percentage.

a) $\frac{32}{100} =$ _____

b) $\frac{18}{100} =$ _____

c) $\frac{5}{100} =$ _____

d) $\frac{98}{100} =$ _____

e) $\frac{9}{100} =$ _____

Day 3. Express each decimal as a percentage.

a) $0.56 = \underline{\hspace{2cm}}$

b) $0.7 = \underline{\hspace{2cm}}$

c) $0.28 = \underline{\hspace{2cm}}$

d) $0.04 = \underline{\hspace{2cm}}$

e) $0.3 = \underline{\hspace{2cm}}$

Day 4. Express each percentage as a decimal.

a) $9\% = \underline{\hspace{2cm}}$

b) $64\% = \underline{\hspace{2cm}}$

c) $6\% = \underline{\hspace{2cm}}$

d) $37\% = \underline{\hspace{2cm}}$

e) $52\% = \underline{\hspace{2cm}}$

WEEK 8.

Day 1. Solve the story problems

- a) Harriet spent \$134 on birdseed for her birds and had \$56 left. How much money did she have at first?

- b) There are 5 bags. Each bag contains the same number of marbles. 2 bags have 18 marbles altogether. How many marbles are in the 5 bags?

- c) A taxi driver traveled a total distance of 1659 km in 7 days. Find the average distance he traveled per day.

- d) The workers in a factory were paid at the rate of \$6 per hour. Justin worked for 7 hours. How much was he paid?



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