

5th Grade Summer Math Calendar

Complete a math fluency activity (see attached) and a word problem or vocabulary game each day, from Monday to Thursday. Complete a sprint on Fridays. Draw an X over the box for each day you do the work.

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 1	<p>Fluency: Write Fractions as Mixed Numbers</p> <p>Word Problem: Four students solved the following problem on a math test:</p> $4 + (5 - 3) \times 8$ <p>Tom said the answer was 48. Nicole said the answer was 20. Sam said the answer was 12. Sarah said the answer was 44. Who was correct? Why? Explain your thinking.</p>	<p>Fluency: Fraction of a Set</p> <p>Word Problem: Solve the following problems:</p> $36 \times 10 = ?$ $36 \times 100 = ?$ $36 \times 1,000 = ?$ <p>Explain the pattern you can use to find the product when multiplying a whole number by a power of 10.</p>	<p>Fluency: Convert to Hundredths</p> <p>Vocabulary: Play a vocabulary game.</p>	<p>Fluency: Multiply a Fraction and a Whole Number</p> <p>Vocabulary: Play a vocabulary game.</p>	Complete Sprint 1.
Week 2	<p>Fluency: Multiply Mentally</p> <p>Word Problem: Multiply each of the following numbers by 10, 100, and 1,000:</p> 7.32 38.5 $.006$ <p>Explain the pattern you can use to find the product when multiplying a decimal by a power of 10.</p>	<p>Fluency: One Unit More</p> <p>Word Problem: Use what you know about multiplying a decimal by a power of 10 to solve the following problem. If 5 pounds of carrots cost \$2.79, how much will 50 pounds cost? Explain your thinking.</p>	<p>Fluency: Find the Product</p> <p>Word Problem: Divide 265 by 10, 100, and 1,000. Explain the pattern you can use when dividing a whole number by a power of 10.</p>	<p>Fluency: Add and Subtract Decimals</p> <p>Word Problem: Divide 63.4 by 10, 100, and 1,000. Explain the pattern you can use when dividing a decimal by a power of 10.</p>	Complete Sprint 2.

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 3	<p>Fluency: Decompose Decimals</p> <p>Word Problem: Make 10 different decimal numbers using the digits 3, 7, 2, 8, and 4. Write each decimal in numeral, expanded and word form.</p>	<p>Fluency: Find the Volume</p> <p>Word Problem: Which is larger 2.9 or 2.13? Explain your reasoning.</p>	<p>Fluency: Make a Like Unit</p> <p>Word Problem: Two students rounded 2.467 to the nearest hundredth. Student A said the answer was 2.47. Student B said the answer was 2.5. Who was correct? Explain your thinking.</p>	<p>Fluency: Unit Conversions</p> <p>Word Problem: How could you break apart 242 to make 242×6 a simpler problem? Would this work for any number? Explain and support your reasoning with other examples.</p>	Complete Sprint 3.
Week 4	<p>Fluency: Compare Decimal Fractions</p> <p>Word Problem: You multiply two numbers and the product is about 90 more than 31×63. What two numbers might you have multiplied? Explain your thinking.</p>	<p>Fluency: Round to the Nearest One</p> <p>Word Problem: Using the numbers 1, 2, 3, 4 create the largest possible product and the smallest possible product. How does the order of the digits affect the product?</p>	<p>Fluency: Multiplying Fractions</p> <p>Vocabulary: Play a vocabulary game.</p>	<p>Fluency: Divide Whole Numbers by Unit Fractions</p> <p>Vocabulary: Play a vocabulary game.</p>	Complete Sprint 4.
Week 5	<p>Fluency: Write Fractions as Mixed Numbers</p> <p>Word Problem: A farmer grows 196 kilograms of carrots. He sells them to a grocer who divides them into 5 kilogram and 2 kilogram bags. If the grocer uses the same number of 5 pound and 2 pound bags, how many bags of each did he use?</p>	<p>Fluency: Fraction of a Set</p> <p>Word Problem: You divide two numbers and the answer is 2.5. What might the two numbers be?</p>	<p>Fluency: Convert to Hundredths</p> <p>Word Problem: Create a word problem involving multiplication of decimals in which the digits 3, 5, 7 and 2 appear. Show how you would solve the problem.</p>	<p>Fluency: Multiply a Fraction and a Whole Number</p> <p>Word Problem: Show 5 or more examples in which:</p> <p>a) The difference between two decimals is greater than 1.</p> <p>b) The difference between two decimals is less than 1.</p>	Complete Sprint 5.

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 6	<p>Fluency: Multiply Mentally</p> <p>Word Problem: Create a word problem with a quotient of 3.4. Solve your problem. How did you choose your numbers?</p>	<p>Fluency: One Unit More</p> <p>Word Problem: I multiplied two numbers and got a product smaller than both numbers. What might the two numbers be?</p>	<p>Fluency: Find the Product</p> <p>Word Problem: Create a word problem that can be solved by subtracting two fractions with unlike denominators. Explain how you could use equivalent fractions as a strategy to solve the problem.</p>	<p>Fluency: Add and Subtract Decimals</p> <p>Word Problem: Show why $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$ by dividing a rectangle. Repeat with other pairs of fractions with unlike denominators.</p>	Complete Sprint 6.
Week 7	<p>Fluency: Decompose Decimals</p> <p>Word Problem: The product of two fractions with unlike denominators is less than $\frac{1}{2}$. What might the two fractions be?</p>	<p>Fluency: Find the Volume</p> <p>Word Problem: The sum of two mixed numbers with unlike denominators is $5\frac{8}{10}$. What might the two mixed numbers be?</p>	<p>Fluency: Make a Like Unit</p> <p>Vocabulary: Play a vocabulary game.</p>	<p>Fluency: Unit Conversions</p> <p>Vocabulary: Play a vocabulary game.</p>	Complete Sprint 7.
Week 8	<p>Fluency: Compare Decimal Fractions</p> <p>Word Problem: Jim's sleeping bag is 5 feet long. Jorge's sleeping bag is 2 yards long. Steven's sleeping bag is 68 inches long. Whose sleeping bag is the longest? Explain your thinking.</p>	<p>Fluency: Round to the Nearest One</p> <p>Word Problem: The volume of a rectangular prism is 24 cubic centimeters. What are the possible dimensions? Explain your thinking.</p>	<p>Fluency: Multiplying Fractions</p> <p>Word Problem: Which is more?</p> <p>a) 2 yards or 7 feet?</p> <p>b) 4000mm or 3 meters?</p> <p>c) 3 pounds or 32 ounces?</p> <p>Explain your thinking.</p>	<p>Fluency: Divide Whole Numbers by Unit Fractions</p> <p>Word Problem: Meg collected $2\frac{4}{5}$ of a bin of glass bottles to recycle. Liam collected $3\frac{1}{2}$ times as many bins as Meg. How many bins of bottles did Liam collect? Explain your thinking.</p>	Complete Sprint 8.

Monday	Monday	Tuesday	Wednesday	Thursday	Friday
Week 9	<p>Fluency: Write Fractions as Mixed Numbers</p> <p>Word Problem: A bakery uses $\frac{1}{8}$ of a barrel of oatmeal in each batch of cookies. The bakery used $3\frac{1}{2}$ barrels of oatmeal yesterday. How many batches of cookies did the bakery make? Explain your thinking.</p>	<p>Fluency: Fraction of a Set</p> <p>Word Problem: A bird feeder holds $2\frac{1}{3}$ of a cup of birdseed. Dad is filling the bird feeder with a scoop that holds $\frac{1}{6}$ of a cup. How many scoops of birdseed will he need? Explain your thinking.</p>	<p>Fluency: Convert to Hundredths</p> <p>Word Problem: You divide two fractions, and the numerator of the quotient is a 3. What might the two fractions be?</p>	<p>Fluency: Multiplying a Fraction and a Whole Number</p> <p>Word Problem: Kate is building a birdhouse and needs three pieces of wood that are each $9\frac{5}{8}$ inches long. She has a piece of wood that is 29 inches long. Will this be long enough? Explain your thinking.</p>	Complete Sprint 9.
	<p>Fluency: Multiply Mentally</p> <p>Word Problem: The product of two mixed numbers is greater than 6 but less than 7. What might the two mixed numbers be?</p>	<p>Fluency: One Unit More</p> <p>Word Problem: The product of two fractions with unlike denominators is less than $\frac{1}{2}$. What might the two fractions be?</p>	<p>Fluency: Find the Product</p> <p>Vocabulary: Play a vocabulary game.</p>	<p>Fluency: Add and Subtract Decimals</p> <p>Vocabulary: Play a vocabulary game.</p>	Complete Sprint 10.
Week 10					

FLUENCY ACTIVITIES

Write Fractions as Mixed Numbers

Materials: (S) Personal white boards

T: (Write $\frac{13}{2} = \underline{\hspace{1cm}} \div \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$.) Write the fraction as a division problem and mixed number.

S: (Write $\frac{13}{2} = 13 \div 2 = 6\frac{1}{2}$.)

More practice!

$\frac{11}{2}, \frac{17}{2}, \frac{44}{2}, \frac{31}{10}, \frac{23}{10}, \frac{47}{10}, \frac{89}{10}, \frac{8}{3}, \frac{13}{3}, \frac{26}{3}, \frac{9}{4}, \frac{13}{4}, \frac{15}{4}$, and $\frac{35}{4}$.

Fraction of a Set

Materials: (S) Personal white boards

T: (Write $\frac{1}{2} \times 10$.) Draw a tape diagram to model the whole number.

S: (Draw tape diagram and label it 10.)

T: Draw a line to split the tape diagram in half.

S: (Draw line.)

T: What is the value of each part of your tape diagram?

S: 5.

T: So, what is $\frac{1}{2}$ of 10?

S: 5.

More practice!

$8 \times \frac{1}{2}, 8 \times \frac{1}{4}, 6 \times \frac{1}{3}, 30 \times \frac{1}{6}, 42 \times \frac{1}{7}, 42 \times \frac{1}{6}, 48 \times \frac{1}{8}, 54 \times \frac{1}{9}$, and $54 \times \frac{1}{6}$.

Convert to Hundredths

Materials: (S) Personal white boards

T: (Write $\frac{3}{4} = \frac{\hspace{1cm}}{100}$.) 4 times what factor equals 100?

S: 25.

T: Write the equivalent fraction.

S: (Write $\frac{3}{4} = \frac{75}{100}$.)

More practice!

$\frac{3}{4} = \frac{\hspace{1cm}}{100}, \frac{1}{50} = \frac{\hspace{1cm}}{100}, \frac{3}{50} = \frac{\hspace{1cm}}{100}, \frac{1}{20} = \frac{\hspace{1cm}}{100}, \frac{3}{20} = \frac{\hspace{1cm}}{100}, \frac{1}{25} = \frac{\hspace{1cm}}{100}$,

and $\frac{2}{25} = \frac{\hspace{1cm}}{100}$.

Multiply a Fraction and a Whole Number

Materials: (S) Personal white boards

T: (Write $\frac{8}{4}$.) Write the corresponding division sentence.

S: $8 \div 4 = 2$.

T: (Write $\frac{1}{4} \times 8 = \underline{\hspace{1cm}}$.) Write the complete multiplication sentence.

S: (Write $\frac{1}{4} \times 8 = 2$.)

More practice!

$\frac{18}{6}, \frac{15}{3}, \frac{18}{6}, \frac{27}{9}, \frac{54}{6}, \frac{51}{3}, \frac{63}{7}$.

Multiply Mentally

Materials: (S) Personal white boards

T: (Write 9×10 .) Write the complete multiplication sentenceS: $9 \times 10 = 90$.T: (Write $9 \times 9 = 90 - \underline{\hspace{1cm}}$ below $9 \times 10 = 90$.) On your personal boards, write the number sentence, filling in the blank.S: (Write $9 \times 9 = 90 - 9$.)T: 9×9 is?

S: 81.

More practice!

 9×99 , 15×9 , and 29×99 .**One Unit More**

Materials: (S) Personal white boards

T: (Write 5 tenths.) Write the decimal that's one-tenth more than 5 tenths.

S: 0.6

More practice!

5 hundredths, 5 thousandths, 8 hundredths, 2 thousandths. Specify the unit of increase.

T: (Write 0.052.) On your boards, write one more thousandth.

S: 0.053

More practice!

1 tenth more than 35 hundredths,
1 thousandth more than 35 hundredths, and
1 hundredth more than 438 thousandths.**Find the Product**

Materials: (S) Personal white boards

T: (Write 4×3 .) Complete the multiplication sentence giving the second factor in unit form.S: 4×3 ones = 12 ones.T: (Write 4×0.2 .) Complete the multiplication sentence giving the second factor in unit form.S: 4×2 tenths = 8 tenths.T: (Write 4×3.2 .) Complete the multiplication sentence giving the second factor in unit form.S: 4×3 ones 2 tenths = 12 ones 8 tenths.

T: Write the complete multiplication sentence.

S: (Write $4 \times 3.1 = 12.8$.)

More practice!

 4×3.21 , 9×2 , 9×0.1 , 9×0.03 , 9×2.13 , 4.012×4 , and 5×3.2375 .**Add and Subtract Decimals**

Materials: (S) Personal white boards

T: (Write 7258 thousandths + 1 thousandth = ____.) Write the addition sentence in decimal form.

S: $7.258 + 0.001 = 7.259$.

More practice!

7 ones + 258 thousandths + 3 hundredths,
6 ones + 453 thousandths + 4 hundredths,
2 ones + 37 thousandths + 5 tenths, and
6 ones + 35 hundredths + 7 thousandths.

T: (Write 4 ones + 8 hundredths – 2 ones = ____ ones ____ hundredths.) Write the subtraction sentence in decimal form.

S: (Write $4.08 - 2 = 2.08$.)

More practice!

9 tenths + 7 thousandths – 4 thousandths,
4 ones + 582 thousandths – 3 hundredths,
9 ones + 708 thousandths – 4 tenths, and
4 ones + 73 thousandths – 4 hundredths.

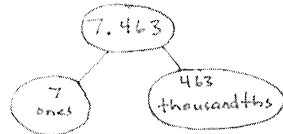
Decompose Decimals

Materials: (S) Personal white boards

T: (Project 7.463.) Say the number.

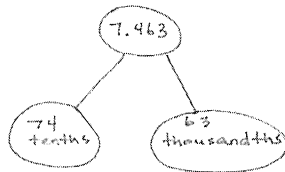
S: 7 and 463 thousandths.

T: Represent this number in a two-part number bond with ones as one part and thousandths as the other part.

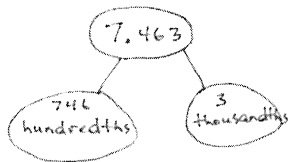


S: (Draw.)

T: Represent it again with tenths and thousandths.



T: Represent it again with hundredths and thousandths.



More practice!

8.972 and 6.849.

Find the Volume

Materials: (S) Personal white boards

T: On your boards, write the formula for finding the volume of a rectangular prism.

S: (Write $V = l \times w \times h$.)

T: (Draw and label a rectangular prism with a length of 5 cm, width of 6 cm, and height of 2 cm.) On your boards, write a multiplication sentence to find the volume this rectangular prism.

S: (Beneath $V = l \times w \times h$, write $V = 5 \text{ cm} \times 6 \text{ cm} \times 2 \text{ cm}$. Beneath it, write $V = 60 \text{ cm}^3$.)

More practice!

 $w = 9 \text{ ft}, l = 7 \text{ ft}, h = 3 \text{ ft}$ $w = 6 \text{ in}, l = 6 \text{ in}, h = 5 \text{ in}$ $w = 8 \text{ cm}, l = 4 \text{ cm}, h = 2 \text{ cm}$ **Make a Like Unit**

Materials: (S) Personal white boards

T: I'll say two unit fractions. You make the like unit and write it on your board. Show your board at the signal.

T: $\frac{1}{3}$ and $\frac{1}{2}$. (Pause. Signal.)

S: (Show sixths.)

More practice!

$\frac{1}{4}$ and $\frac{1}{3}$, $\frac{1}{2}$ and $\frac{1}{4}$, $\frac{1}{6}$ and $\frac{1}{2}$, $\frac{1}{3}$ and $\frac{1}{12}$, $\frac{1}{6}$ and $\frac{1}{8}$, and $\frac{1}{3}$ and $\frac{1}{9}$.

Unit Conversions

Materials: (S) Personal white boards

T: (Write 12 in = ____ ft.) 12 inches is the same as how many feet?

S: 1 foot.

More practice!

24 in, 36 in, 54 in, and 76 in.

T: (Write 1 ft = ____ in.) 1 foot is the same as how many inches?

S: 12 inches.

More practice!

2 ft, 2.5 ft, 3 ft, 3.5 ft, 4 ft 4.5 ft 9 ft, and 9.5 ft

Compare Decimal Fractions

Materials: (S) Personal white boards

T: (Write 13.78 ___ 13.86 .) On your personal boards, compare the numbers using the greater than, less than, or equal sign.

S: (Write $13.78 < 13.86$.)

More practice!

0.78 ___ $\frac{78}{100}$, 439.3 ___ 4.39 , 5.08 ___ fifty-eight tenths, and thirty-five and 9 thousandths ___ 4 tens.

Round to the Nearest One

Materials: (S) Personal white boards

T: (Write 3 ones 2 tenths.) Write 3 ones and 2 tenths as a decimal.

S: (Write 3. 2.)

T: (Write $3.2 \approx$ ___.) Round 3 and 2 tenths to the nearest whole number.

S: (Write $3.2 \approx 3$.)

More practice!

3.7, 13.7, 5.4, 25.4, 1.5, 21.5, 6.48, 3.62, and 36.52.

Multiplying Fractions

Materials: (S) Personal white boards

T: (Write $\frac{1}{2} \times \frac{1}{3} =$ ___.) Write the complete multiplication sentence.

S: (Write $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$.)

T: (Write $\frac{1}{2} \times \frac{3}{4} =$ ___.) Write the complete multiplication sentence.

S: (Write $\frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$.)

T: (Write $\frac{2}{5} \times \frac{2}{3} =$ ___.) Write the complete multiplication sentence.

S: (Write $\frac{2}{5} \times \frac{2}{3} = \frac{4}{15}$.)

More practice!

$\frac{1}{2} \times \frac{1}{5}$, $\frac{1}{2} \times \frac{3}{5}$, $\frac{3}{4} \times \frac{3}{5}$, $\frac{4}{5} \times \frac{2}{3}$, and $\frac{3}{4} \times \frac{5}{6}$.

Divide Whole Numbers by Unit Fractions

Materials: (S) Personal white boards

T: (Write $1 \div \frac{1}{2}$.) How many halves are in 1?

S: 2.

T: (Write $1 \div \frac{1}{2} = 2$. Beneath it, write $2 \div \frac{1}{2}$.) How many halves are in 2?

S: 4.

T: (Write $2 \div \frac{1}{2} = 4$. Beneath it, write $3 \div \frac{1}{2}$.) How many halves are in 3?

S: 6.

T: (Write $3 \div \frac{1}{2} = 6$. Beneath it, write $7 \div \frac{1}{2}$.) Write the complete division sentence.

S: (Write $7 \div \frac{1}{2} = 14$.)

More practice!

$1 \div \frac{1}{3}$, $2 \div \frac{1}{5}$, $9 \div \frac{1}{4}$, and $3 \div \frac{1}{8}$.

SPRINT #1

A

Correct _____

Write the Fraction, Whole Number, or Mixed Number.

1	$1 \div 2 =$		23	$6 \div 2 =$	
2	$1 \div 3 =$		24	$7 \div 2 =$	
3	$1 \div 8 =$		25	$8 \div 8 =$	
4	$2 \div 2 =$		26	$9 \div 8 =$	
5	$2 \div 3 =$		27	$15 \div 8 =$	
6	$3 \div 3 =$		28	$8 \div 4 =$	
7	$3 \div 4 =$		29	$11 \div 4 =$	
8	$3 \div 10 =$		30	$15 \div 2 =$	
9	$3 \div 5 =$		31	$24 \div 5 =$	
10	$5 \div 5 =$		32	$17 \div 4 =$	
11	$6 \div 5 =$		33	$20 \div 3 =$	
12	$7 \div 5 =$		34	$13 \div 6 =$	
13	$9 \div 5 =$		35	$30 \div 7 =$	
14	$2 \div 3 =$		36	$27 \div 8 =$	
15	$4 \div 4 =$		37	$49 \div 9 =$	
16	$5 \div 4 =$		38	$29 \div 6 =$	
17	$7 \div 4 =$		39	$47 \div 7 =$	
18	$4 \div 2 =$		40	$53 \div 8 =$	
19	$5 \div 2 =$		41	$67 \div 9 =$	
20	$10 \div 5 =$		42	$59 \div 6 =$	
21	$11 \div 5 =$		43	$63 \div 8 =$	
22	$13 \div 5 =$		44	$71 \div 9 =$	

B Improvement _____ # Correct _____

Write the Fraction, Whole Number, or Mixed Number.

1	$1 \div 3 =$		23	$15 \div 5 =$	
2	$1 \div 4 =$		24	$16 \div 5 =$	
3	$1 \div 10 =$		25	$6 \div 6 =$	
4	$5 \div 5 =$		26	$7 \div 6 =$	
5	$5 \div 6 =$		27	$11 \div 6 =$	
6	$3 \div 3 =$		28	$6 \div 3 =$	
7	$3 \div 7 =$		29	$8 \div 3 =$	
8	$3 \div 10 =$		30	$13 \div 2 =$	
9	$3 \div 4 =$		31	$23 \div 5 =$	
10	$4 \div 4 =$		32	$15 \div 4 =$	
11	$5 \div 4 =$		33	$19 \div 4 =$	
12	$2 \div 2 =$		34	$19 \div 6 =$	
13	$3 \div 2 =$		35	$31 \div 7 =$	
14	$4 \div 5 =$		36	$37 \div 8 =$	
15	$10 \div 10 =$		37	$50 \div 9 =$	
16	$11 \div 10 =$		38	$17 \div 6 =$	
17	$13 \div 10 =$		39	$48 \div 7 =$	
18	$10 \div 5 =$		40	$51 \div 8 =$	
19	$11 \div 5 =$		41	$68 \div 9 =$	
20	$13 \div 5 =$		42	$53 \div 6 =$	
21	$4 \div 2 =$		43	$61 \div 8 =$	
22	$5 \div 2 =$		44	$70 \div 9 =$	

SPRINT #2

A

Correct _____

Solve.

1	$\frac{1}{5} \times 2 =$		23	$\frac{5}{6} \times 12 =$	
2	$\frac{1}{5} \times 3 =$		24	$\frac{1}{3} \times 15 =$	
3	$\frac{1}{5} \times 4 =$		25	$\frac{2}{3} \times 15 =$	
4	$4 \times \frac{1}{5} =$		26	$15 \times \frac{2}{3} =$	
5	$\frac{1}{8} \times 3 =$		27	$\frac{1}{5} \times 15 =$	
6	$\frac{1}{8} \times 5 =$		28	$\frac{2}{5} \times 15 =$	
7	$\frac{1}{8} \times 7 =$		29	$\frac{4}{5} \times 15 =$	
8	$7 \times \frac{1}{8} =$		30	$\frac{3}{5} \times 15 =$	
9	$3 \times \frac{1}{10} =$		31	$15 \times \frac{3}{5} =$	
10	$7 \times \frac{1}{10} =$		32	$18 \times \frac{1}{6} =$	
11	$\frac{1}{10} \times 7 =$		33	$18 \times \frac{5}{6} =$	
12	$4 \div 2 =$		34	$\frac{5}{6} \times 18 =$	
13	$4 \times \frac{1}{2} =$		35	$24 \times \frac{1}{4} =$	
14	$6 \div 3 =$		36	$\frac{3}{4} \times 24 =$	
15	$\frac{1}{3} \times 6 =$		37	$32 \times \frac{1}{8} =$	
16	$10 \div 5 =$		38	$32 \times \frac{3}{8} =$	
17	$10 \times \frac{1}{5} =$		39	$\frac{5}{8} \times 32 =$	
18	$\frac{1}{3} \times 9 =$		40	$32 \times \frac{7}{8} =$	
19	$\frac{2}{3} \times 9 =$		41	$\frac{5}{9} \times 54 =$	
20	$\frac{1}{4} \times 8 =$		42	$63 \times \frac{7}{9} =$	
21	$\frac{3}{4} \times 8 =$		43	$56 \times \frac{3}{7} =$	
22	$\frac{1}{6} \times 12 =$		44	$\frac{6}{7} \times 49 =$	

B

Improvement _____

Correct _____

Solve.

1	$\frac{1}{7} \times 2 =$		23	$\frac{3}{4} \times 8 =$	
2	$\frac{1}{7} \times 3 =$		24	$\frac{1}{5} \times 15 =$	
3	$\frac{1}{7} \times 4 =$		25	$\frac{2}{5} \times 15 =$	
4	$4 \times \frac{1}{7} =$		26	$\frac{4}{5} \times 15 =$	
5	$\frac{1}{10} \times 3 =$		27	$\frac{3}{5} \times 15 =$	
6	$\frac{1}{10} \times 7 =$		28	$15 \times \frac{3}{5} =$	
7	$\frac{1}{10} \times 9 =$		29	$\frac{1}{3} \times 15 =$	
8	$9 \times \frac{1}{10} =$		30	$\frac{2}{3} \times 15 =$	
9	$3 \times \frac{1}{8} =$		31	$15 \times \frac{2}{3} =$	
10	$5 \times \frac{1}{8} =$		32	$24 \times \frac{1}{6} =$	
11	$\frac{1}{8} \times 5 =$		33	$24 \times \frac{5}{6} =$	
12	$10 \div 5 =$		34	$\frac{5}{6} \times 24 =$	
13	$10 \times \frac{1}{5} =$		35	$20 \times \frac{1}{4} =$	
14	$9 \div 3 =$		36	$\frac{3}{4} \times 20 =$	
15	$\frac{1}{3} \times 9 =$		37	$24 \times \frac{1}{8} =$	
16	$10 \div 2 =$		38	$24 \times \frac{3}{8} =$	
17	$10 \times \frac{1}{2} =$		39	$\frac{5}{8} \times 24 =$	
18	$\frac{1}{3} \times 6 =$		40	$24 \times \frac{7}{8} =$	
19	$\frac{2}{3} \times 6 =$		41	$\frac{5}{9} \times 63 =$	
20	$\frac{1}{6} \times 12 =$		42	$54 \times \frac{7}{9} =$	
21	$\frac{5}{6} \times 12 =$		43	$49 \times \frac{3}{7} =$	
22	$\frac{1}{4} \times 8 =$		44	$\frac{6}{7} \times 56 =$	

SPRINT #3**A**

Correct _____

Multiply, but don't simplify.

1	$\frac{1}{2} \times \frac{1}{2} =$		23	$\frac{2}{5} \times \frac{5}{3} =$	
2	$\frac{1}{2} \times \frac{1}{3} =$		24	$\frac{3}{5} \times \frac{5}{2} =$	
3	$\frac{1}{2} \times \frac{1}{4} =$		25	$\frac{1}{3} \times \frac{1}{3} =$	
4	$\frac{1}{2} \times \frac{1}{7} =$		26	$\frac{1}{3} \times \frac{2}{3} =$	
5	$\frac{1}{7} \times \frac{1}{2} =$		27	$\frac{2}{3} \times \frac{2}{3} =$	
6	$\frac{1}{3} \times \frac{1}{2} =$		28	$\frac{2}{3} \times \frac{3}{2} =$	
7	$\frac{1}{3} \times \frac{1}{3} =$		29	$\frac{2}{3} \times \frac{4}{3} =$	
8	$\frac{1}{3} \times \frac{1}{6} =$		30	$\frac{2}{3} \times \frac{5}{3} =$	
9	$\frac{1}{3} \times \frac{1}{5} =$		31	$\frac{3}{2} \times \frac{3}{5} =$	
10	$\frac{1}{5} \times \frac{1}{3} =$		32	$\frac{3}{4} \times \frac{1}{5} =$	
11	$\frac{1}{5} \times \frac{2}{3} =$		33	$\frac{3}{4} \times \frac{4}{5} =$	
12	$\frac{2}{5} \times \frac{2}{3} =$		34	$\frac{3}{4} \times \frac{5}{5} =$	
13	$\frac{1}{4} \times \frac{1}{3} =$		35	$\frac{3}{4} \times \frac{6}{5} =$	
14	$\frac{1}{4} \times \frac{2}{3} =$		36	$\frac{1}{4} \times \frac{6}{5} =$	
15	$\frac{3}{4} \times \frac{2}{3} =$		37	$\frac{1}{7} \times \frac{1}{7} =$	
16	$\frac{1}{6} \times \frac{1}{3} =$		38	$\frac{1}{8} \times \frac{3}{5} =$	
17	$\frac{5}{6} \times \frac{1}{3} =$		39	$\frac{5}{6} \times \frac{1}{4} =$	
18	$\frac{5}{6} \times \frac{2}{3} =$		40	$\frac{3}{4} \times \frac{3}{4} =$	
19	$\frac{5}{4} \times \frac{2}{3} =$		41	$\frac{2}{3} \times \frac{6}{6} =$	
20	$\frac{1}{5} \times \frac{1}{5} =$		42	$\frac{3}{4} \times \frac{6}{2} =$	
21	$\frac{2}{5} \times \frac{2}{5} =$		43	$\frac{7}{8} \times \frac{7}{9} =$	
22	$\frac{2}{5} \times \frac{3}{5} =$		44	$\frac{7}{12} \times \frac{9}{8} =$	

B

Improvement _____

Correct _____

Multiply, but don't simplify.

1	$\frac{1}{2} \times \frac{1}{3} =$		23	$\frac{3}{5} \times \frac{5}{4} =$	
2	$\frac{1}{2} \times \frac{1}{4} =$		24	$\frac{4}{5} \times \frac{5}{3} =$	
3	$\frac{1}{2} \times \frac{1}{5} =$		25	$\frac{1}{4} \times \frac{1}{4} =$	
4	$\frac{1}{2} \times \frac{1}{9} =$		26	$\frac{1}{4} \times \frac{3}{4} =$	
5	$\frac{1}{9} \times \frac{1}{2} =$		27	$\frac{3}{4} \times \frac{3}{4} =$	
6	$\frac{1}{5} \times \frac{1}{2} =$		28	$\frac{3}{4} \times \frac{4}{3} =$	
7	$\frac{1}{5} \times \frac{1}{3} =$		29	$\frac{3}{4} \times \frac{5}{4} =$	
8	$\frac{1}{5} \times \frac{1}{7} =$		30	$\frac{3}{4} \times \frac{6}{4} =$	
9	$\frac{1}{5} \times \frac{1}{3} =$		31	$\frac{4}{3} \times \frac{4}{6} =$	
10	$\frac{1}{3} \times \frac{1}{5} =$		32	$\frac{2}{3} \times \frac{1}{5} =$	
11	$\frac{1}{3} \times \frac{2}{5} =$		33	$\frac{2}{3} \times \frac{4}{5} =$	
12	$\frac{2}{3} \times \frac{2}{5} =$		34	$\frac{2}{3} \times \frac{5}{5} =$	
13	$\frac{1}{3} \times \frac{1}{4} =$		35	$\frac{2}{3} \times \frac{6}{5} =$	
14	$\frac{1}{3} \times \frac{3}{4} =$		36	$\frac{1}{3} \times \frac{6}{5} =$	
15	$\frac{2}{3} \times \frac{3}{4} =$		37	$\frac{1}{9} \times \frac{1}{9} =$	
16	$\frac{1}{3} \times \frac{1}{6} =$		38	$\frac{1}{5} \times \frac{3}{8} =$	
17	$\frac{2}{3} \times \frac{1}{6} =$		39	$\frac{3}{4} \times \frac{1}{6} =$	
18	$\frac{2}{3} \times \frac{5}{6} =$		40	$\frac{2}{3} \times \frac{2}{3} =$	
19	$\frac{3}{2} \times \frac{3}{4} =$		41	$\frac{3}{4} \times \frac{8}{8} =$	
20	$\frac{1}{5} \times \frac{1}{5} =$		42	$\frac{2}{3} \times \frac{6}{3} =$	
21	$\frac{3}{5} \times \frac{3}{5} =$		43	$\frac{6}{7} \times \frac{8}{9} =$	
22	$\frac{3}{5} \times \frac{4}{5} =$		44	$\frac{7}{12} \times \frac{8}{7} =$	

SPRINT #4

A

Correct _____

Divide.

1	$1 \div 1 =$		23	$5 \div 0.1 =$	
2	$1 \div 0.1 =$		24	$0.5 \div 0.1 =$	
3	$2 \div 0.1 =$		25	$0.05 \div 0.1 =$	
4	$7 \div 0.1 =$		26	$0.08 \div 0.1 =$	
5	$1 \div 0.1 =$		27	$4 \div 0.01 =$	
6	$10 \div 0.1 =$		28	$40 \div 0.01 =$	
7	$20 \div 0.1 =$		29	$47 \div 0.01 =$	
8	$60 \div 0.1 =$		30	$59 \div 0.01 =$	
9	$1 \div 1 =$		31	$3 \div 0.1 =$	
10	$1 \div 0.1 =$		32	$30 \div 0.1 =$	
11	$10 \div 0.1 =$		33	$32 \div 0.1 =$	
12	$100 \div 0.1 =$		34	$32.5 \div 0.1 =$	
13	$200 \div 0.1 =$		35	$25 \div 5 =$	
14	$800 \div 0.1 =$		36	$2.5 \div 0.5 =$	
15	$1 \div 0.1 =$		37	$2.5 \div 0.05 =$	
16	$1 \div 0.01 =$		38	$3.6 \div 0.04 =$	
17	$2 \div 0.01 =$		39	$32 \div 0.08 =$	
18	$9 \div 0.01 =$		40	$56 \div 0.7 =$	
19	$5 \div 0.01 =$		41	$77 \div 1.1 =$	
20	$50 \div 0.01 =$		42	$4.8 \div 0.12 =$	
21	$60 \div 0.01 =$		43	$4.84 \div 0.4 =$	
22	$20 \div 0.01 =$		44	$9.63 \div 0.03 =$	

B

Improvement _____

Correct _____

Divide.

1	$10 \div 1 =$		23	$4 \div 0.1 =$	
2	$1 \div 0.1 =$		24	$0.4 \div 0.1 =$	
3	$2 \div 0.1 =$		25	$0.04 \div 0.1 =$	
4	$8 \div 0.1 =$		26	$0.07 \div 0.1 =$	
5	$1 \div 0.1 =$		27	$5 \div 0.01 =$	
6	$10 \div 0.1 =$		28	$50 \div 0.01 =$	
7	$20 \div 0.1 =$		29	$53 \div 0.01 =$	
8	$70 \div 0.1 =$		30	$68 \div 0.01 =$	
9	$1 \div 1 =$		31	$2 \div 0.1 =$	
10	$1 \div 0.1 =$		32	$20 \div 0.1 =$	
11	$10 \div 0.1 =$		33	$23 \div 0.1 =$	
12	$100 \div 0.1 =$		34	$23.6 \div 0.1 =$	
13	$200 \div 0.1 =$		35	$15 \div 5 =$	
14	$900 \div 0.1 =$		36	$1.5 \div 0.5 =$	
15	$1 \div 0.1 =$		37	$1.5 \div 0.05 =$	
16	$1 \div 0.01 =$		38	$3.2 \div 0.04 =$	
17	$2 \div 0.01 =$		39	$28 \div 0.07 =$	
18	$7 \div 0.01 =$		40	$42 \div 0.6 =$	
19	$4 \div 0.01 =$		41	$88 \div 1.1 =$	
20	$40 \div 0.01 =$		42	$3.6 \div 0.12 =$	
21	$50 \div 0.01 =$		43	$3.63 \div 0.3 =$	
22	$80 \div 0.01 =$		44	$8.44 \div 0.04 =$	

SPRINT #5

A

Correct _____

Solve.

1	$\frac{1}{5} \times 2 =$		23	$\frac{5}{6} \times 12 =$	
2	$\frac{1}{5} \times 3 =$		24	$\frac{1}{3} \times 15 =$	
3	$\frac{1}{5} \times 4 =$		25	$\frac{2}{3} \times 15 =$	
4	$4 \times \frac{1}{5} =$		26	$15 \times \frac{2}{3} =$	
5	$\frac{1}{8} \times 3 =$		27	$\frac{1}{5} \times 15 =$	
6	$\frac{1}{8} \times 5 =$		28	$\frac{2}{5} \times 15 =$	
7	$\frac{1}{8} \times 7 =$		29	$\frac{4}{5} \times 15 =$	
8	$7 \times \frac{1}{8} =$		30	$\frac{3}{5} \times 15 =$	
9	$3 \times \frac{1}{10} =$		31	$15 \times \frac{3}{5} =$	
10	$7 \times \frac{1}{10} =$		32	$18 \times \frac{1}{6} =$	
11	$\frac{1}{10} \times 7 =$		33	$18 \times \frac{5}{6} =$	
12	$4 \div 2 =$		34	$\frac{5}{6} \times 18 =$	
13	$4 \times \frac{1}{2} =$		35	$24 \times \frac{1}{4} =$	
14	$6 \div 3 =$		36	$\frac{3}{4} \times 24 =$	
15	$\frac{1}{3} \times 6 =$		37	$32 \times \frac{1}{8} =$	
16	$10 \div 5 =$		38	$32 \times \frac{3}{8} =$	
17	$10 \times \frac{1}{5} =$		39	$\frac{5}{8} \times 32 =$	
18	$\frac{1}{3} \times 9 =$		40	$32 \times \frac{7}{8} =$	
19	$\frac{2}{3} \times 9 =$		41	$\frac{5}{9} \times 54 =$	
20	$\frac{1}{4} \times 8 =$		42	$63 \times \frac{7}{9} =$	
21	$\frac{3}{4} \times 8 =$		43	$56 \times \frac{3}{7} =$	
22	$\frac{1}{6} \times 12 =$		44	$\frac{6}{7} \times 49 =$	

B

Improvement _____

Correct _____

Solve.

1	$\frac{1}{7} \times 2 =$		23	$\frac{3}{4} \times 8 =$	
2	$\frac{1}{7} \times 3 =$		24	$\frac{1}{5} \times 15 =$	
3	$\frac{1}{7} \times 4 =$		25	$\frac{2}{5} \times 15 =$	
4	$4 \times \frac{1}{7} =$		26	$\frac{4}{5} \times 15 =$	
5	$\frac{1}{10} \times 3 =$		27	$\frac{3}{5} \times 15 =$	
6	$\frac{1}{10} \times 7 =$		28	$15 \times \frac{3}{5} =$	
7	$\frac{1}{10} \times 9 =$		29	$\frac{1}{3} \times 15 =$	
8	$9 \times \frac{1}{10} =$		30	$\frac{2}{3} \times 15 =$	
9	$3 \times \frac{1}{8} =$		31	$15 \times \frac{2}{3} =$	
10	$5 \times \frac{1}{8} =$		32	$24 \times \frac{1}{6} =$	
11	$\frac{1}{8} \times 5 =$		33	$24 \times \frac{5}{6} =$	
12	$10 \div 5 =$		34	$\frac{5}{6} \times 24 =$	
13	$10 \times \frac{1}{5} =$		35	$20 \times \frac{1}{4} =$	
14	$9 \div 3 =$		36	$\frac{3}{4} \times 20 =$	
15	$\frac{1}{3} \times 9 =$		37	$24 \times \frac{1}{8} =$	
16	$10 \div 2 =$		38	$24 \times \frac{3}{8} =$	
17	$10 \times \frac{1}{2} =$		39	$\frac{5}{8} \times 24 =$	
18	$\frac{1}{3} \times 6 =$		40	$24 \times \frac{7}{8} =$	
19	$\frac{2}{3} \times 6 =$		41	$\frac{5}{9} \times 63 =$	
20	$\frac{1}{6} \times 12 =$		42	$54 \times \frac{7}{9} =$	
21	$\frac{5}{6} \times 12 =$		43	$49 \times \frac{3}{7} =$	
22	$\frac{1}{4} \times 8 =$		44	$\frac{6}{7} \times 56 =$	

SPRINT #6

A

Correct _____

Multiply.

1	$3 \times 2 =$		23	$0.6 \times 2 =$	
2	$3 \times 0.2 =$		24	$0.6 \times 0.2 =$	
3	$3 \times 0.02 =$		25	$0.6 \times 0.02 =$	
4	$3 \times 3 =$		26	$0.2 \times 0.06 =$	
5	$3 \times 0.3 =$		27	$5 \times 7 =$	
6	$3 \times 0.03 =$		28	$0.5 \times 7 =$	
7	$2 \times 4 =$		29	$0.5 \times 0.7 =$	
8	$2 \times 0.4 =$		30	$0.5 \times 0.07 =$	
9	$2 \times 0.04 =$		31	$0.7 \times 0.05 =$	
10	$5 \times 3 =$		32	$2 \times 8 =$	
11	$5 \times 0.3 =$		33	$9 \times 0.2 =$	
12	$5 \times 0.03 =$		34	$3 \times 7 =$	
13	$7 \times 2 =$		35	$8 \times 0.03 =$	
14	$7 \times 0.2 =$		36	$4 \times 6 =$	
15	$7 \times 0.02 =$		37	$0.6 \times 7 =$	
16	$4 \times 3 =$		38	$0.7 \times 0.7 =$	
17	$4 \times 0.3 =$		39	$0.8 \times 0.06 =$	
18	$0.4 \times 3 =$		40	$0.09 \times 0.6 =$	
19	$0.4 \times 0.3 =$		41	$6 \times 0.8 =$	
20	$0.4 \times 0.03 =$		42	$0.7 \times 0.9 =$	
21	$0.3 \times 0.04 =$		43	$0.08 \times 0.8 =$	
22	$6 \times 2 =$		44	$0.9 \times 0.08 =$	

B

Improvement _____ # Correct _____

Multiply.

1	$4 \times 2 =$		23	$0.8 \times 2 =$	
2	$4 \times 0.2 =$		24	$0.8 \times 0.2 =$	
3	$4 \times 0.02 =$		25	$0.8 \times 0.02 =$	
4	$2 \times 3 =$		26	$0.2 \times 0.08 =$	
5	$2 \times 0.3 =$		27	$5 \times 9 =$	
6	$2 \times 0.03 =$		28	$0.5 \times 9 =$	
7	$3 \times 3 =$		29	$0.5 \times 0.9 =$	
8	$3 \times 0.3 =$		30	$0.5 \times 0.09 =$	
9	$3 \times 0.03 =$		31	$0.9 \times 0.05 =$	
10	$4 \times 3 =$		32	$2 \times 6 =$	
11	$4 \times 0.3 =$		33	$7 \times 0.2 =$	
12	$4 \times 0.03 =$		34	$3 \times 8 =$	
13	$9 \times 2 =$		35	$9 \times 0.03 =$	
14	$9 \times 0.2 =$		36	$4 \times 8 =$	
15	$9 \times 0.02 =$		37	$0.7 \times 6 =$	
16	$5 \times 3 =$		38	$0.6 \times 0.6 =$	
17	$5 \times 0.3 =$		39	$0.6 \times 0.08 =$	
18	$0.5 \times 3 =$		40	$0.06 \times 0.9 =$	
19	$0.5 \times 0.3 =$		41	$8 \times 0.6 =$	
20	$0.5 \times 0.03 =$		42	$0.9 \times 0.7 =$	
21	$0.3 \times 0.05 =$		43	$0.07 \times 0.7 =$	
22	$8 \times 2 =$		44	$0.8 \times 0.09 =$	

SPRINT #7**A**

Correct _____

Divide.

1	$30 \div 10 =$	23	$480 \div 4 =$
2	$430 \div 10 =$	24	$480 \div 40 =$
3	$4,300 \div 10 =$	25	$6,300 \div 3 =$
4	$4,300 \div 100 =$	26	$6,300 \div 30 =$
5	$43,000 \div 100 =$	27	$6,300 \div 300 =$
6	$50 \div 10 =$	28	$8,400 \div 2 =$
7	$850 \div 10 =$	29	$8,400 \div 20 =$
8	$8,500 \div 10 =$	30	$8,400 \div 200 =$
9	$8,500 \div 100 =$	31	$96,000 \div 3 =$
10	$85,000 \div 100 =$	32	$96,000 \div 300 =$
11	$600 \div 10 =$	33	$96,000 \div 30 =$
12	$60 \div 3 =$	34	$900 \div 30 =$
13	$600 \div 30 =$	35	$1,200 \div 30 =$
14	$4,000 \div 100 =$	36	$1,290 \div 30 =$
15	$40 \div 2 =$	37	$1,800 \div 300 =$
16	$4,000 \div 200 =$	38	$8,000 \div 200 =$
17	$240 \div 10 =$	39	$12,000 \div 200 =$
18	$24 \div 2 =$	40	$12,800 \div 200 =$
19	$240 \div 20 =$	41	$2,240 \div 70 =$
20	$3,600 \div 100 =$	42	$18,400 \div 800 =$
21	$36 \div 3 =$	43	$21,600 \div 90 =$
22	$3,600 \div 300 =$	44	$25,200 \div 600 =$

B

Improvement _____

Correct _____

Divide.

1	$20 \div 10 =$	23	$840 \div 4 =$
2	$420 \div 10 =$	24	$840 \div 40 =$
3	$4,200 \div 10 =$	25	$3,600 \div 3 =$
4	$4,200 \div 100 =$	26	$3,600 \div 30 =$
5	$42,000 \div 100 =$	27	$3,600 \div 300 =$
6	$40 \div 10 =$	28	$4,800 \div 2 =$
7	$840 \div 10 =$	29	$4,800 \div 20 =$
8	$8,400 \div 10 =$	30	$4,800 \div 200 =$
9	$8,400 \div 100 =$	31	$69,000 \div 3 =$
10	$84,000 \div 100 =$	32	$69,000 \div 300 =$
11	$900 \div 10 =$	33	$69,000 \div 30 =$
12	$90 \div 3 =$	34	$800 \div 40 =$
13	$900 \div 30 =$	35	$1,200 \div 40 =$
14	$6,000 \div 100 =$	36	$1,280 \div 40 =$
15	$60 \div 2 =$	37	$1,600 \div 400 =$
16	$6,000 \div 200 =$	38	$8,000 \div 200 =$
17	$240 \div 10 =$	39	$14,000 \div 200 =$
18	$24 \div 2 =$	40	$14,600 \div 200 =$
19	$240 \div 20 =$	41	$2,560 \div 80 =$
20	$6,300 \div 100 =$	42	$16,100 \div 700 =$
21	$63 \div 3 =$	43	$14,400 \div 60 =$
22	$6,300 \div 300 =$	44	$37,800 \div 900 =$

SPRINT #8**A**

Correct _____

Multiply.

1	$62.3 \times 10 =$		23	$4.1 \times 1000 =$	
2	$62.3 \times 100 =$		24	$7.6 \times 1000 =$	
3	$62.3 \times 1000 =$		25	$0.01 \times 1000 =$	
4	$73.6 \times 10 =$		26	$0.07 \times 1000 =$	
5	$73.6 \times 100 =$		27	$0.072 \times 100 =$	
6	$73.6 \times 1000 =$		28	$0.802 \times 10 =$	
7	$0.6 \times 10 =$		29	$0.019 \times 1000 =$	
8	$0.06 \times 10 =$		30	$7.412 \times 1000 =$	
9	$0.006 \times 10 =$		31	$6.8 \times 100 =$	
10	$0.3 \times 10 =$		32	$4.901 \times 10 =$	
11	$0.3 \times 100 =$		33	$16.07 \times 100 =$	
12	$0.3 \times 1000 =$		34	$9.19 \times 10 =$	
13	$0.02 \times 10 =$		35	$18.2 \times 100 =$	
14	$0.02 \times 100 =$		36	$14.7 \times 1000 =$	
15	$0.02 \times 1000 =$		37	$2.021 \times 100 =$	
16	$0.008 \times 10 =$		38	$172.1 \times 10 =$	
17	$0.008 \times 100 =$		39	$3.2 \times 20 =$	
18	$0.008 \times 1000 =$		40	$4.1 \times 20 =$	
19	$0.32 \times 10 =$		41	$3.2 \times 30 =$	
20	$0.67 \times 10 =$		42	$1.3 \times 30 =$	
21	$0.91 \times 100 =$		43	$3.12 \times 40 =$	
22	$0.74 \times 100 =$		44	$14.12 \times 40 =$	

B

Improvement _____ # Correct _____

Multiply.

1	$46.1 \times 10 =$		23	$5.2 \times 1000 =$	
2	$46.1 \times 100 =$		24	$8.7 \times 1000 =$	
3	$46.1 \times 1000 =$		25	$0.01 \times 1000 =$	
4	$89.2 \times 10 =$		26	$0.08 \times 1000 =$	
5	$89.2 \times 100 =$		27	$0.083 \times 10 =$	
6	$89.2 \times 1000 =$		28	$0.903 \times 10 =$	
7	$0.3 \times 10 =$		29	$0.017 \times 1000 =$	
8	$0.03 \times 10 =$		30	$8.523 \times 1000 =$	
9	$0.003 \times 10 =$		31	$7.9 \times 100 =$	
10	$0.9 \times 10 =$		32	$5.802 \times 10 =$	
11	$0.9 \times 100 =$		33	$27.08 \times 100 =$	
12	$0.9 \times 1000 =$		34	$8.18 \times 10 =$	
13	$0.04 \times 10 =$		35	$29.3 \times 100 =$	
14	$0.04 \times 100 =$		36	$25.8 \times 1000 =$	
15	$0.04 \times 1000 =$		37	$3.032 \times 100 =$	
16	$0.007 \times 10 =$		38	$283.1 \times 10 =$	
17	$0.007 \times 100 =$		39	$2.1 \times 20 =$	
18	$0.007 \times 1000 =$		40	$3.3 \times 20 =$	
19	$0.45 \times 10 =$		41	$3.1 \times 30 =$	
20	$0.78 \times 10 =$		42	$1.2 \times 30 =$	
21	$0.28 \times 100 =$		43	$2.11 \times 40 =$	
22	$0.19 \times 100 =$		44	$13.11 \times 40 =$	

SPRINT #9**A**

Correct _____

Multiply.

1	$3 \times 2 =$		23	$0.6 \times 2 =$	
2	$3 \times 0.2 =$		24	$0.6 \times 0.2 =$	
3	$3 \times 0.02 =$		25	$0.6 \times 0.02 =$	
4	$3 \times 3 =$		26	$0.2 \times 0.06 =$	
5	$3 \times 0.3 =$		27	$5 \times 7 =$	
6	$3 \times 0.03 =$		28	$0.5 \times 7 =$	
7	$2 \times 4 =$		29	$0.5 \times 0.7 =$	
8	$2 \times 0.4 =$		30	$0.5 \times 0.07 =$	
9	$2 \times 0.04 =$		31	$0.7 \times 0.05 =$	
10	$5 \times 3 =$		32	$2 \times 8 =$	
11	$5 \times 0.3 =$		33	$9 \times 0.2 =$	
12	$5 \times 0.03 =$		34	$3 \times 7 =$	
13	$7 \times 2 =$		35	$8 \times 0.03 =$	
14	$7 \times 0.2 =$		36	$4 \times 6 =$	
15	$7 \times 0.02 =$		37	$0.6 \times 7 =$	
16	$4 \times 3 =$		38	$0.7 \times 0.7 =$	
17	$4 \times 0.3 =$		39	$0.8 \times 0.06 =$	
18	$0.4 \times 3 =$		40	$0.09 \times 0.6 =$	
19	$0.4 \times 0.3 =$		41	$6 \times 0.8 =$	
20	$0.4 \times 0.03 =$		42	$0.7 \times 0.9 =$	
21	$0.3 \times 0.04 =$		43	$0.08 \times 0.8 =$	
22	$6 \times 2 =$		44	$0.9 \times 0.08 =$	

B

Improvement _____

Correct _____

Multiply.

1	$4 \times 2 =$		23	$0.8 \times 2 =$	
2	$4 \times 0.2 =$		24	$0.8 \times 0.2 =$	
3	$4 \times 0.02 =$		25	$0.8 \times 0.02 =$	
4	$2 \times 3 =$		26	$0.2 \times 0.08 =$	
5	$2 \times 0.3 =$		27	$5 \times 9 =$	
6	$2 \times 0.03 =$		28	$0.5 \times 9 =$	
7	$3 \times 3 =$		29	$0.5 \times 0.9 =$	
8	$3 \times 0.3 =$		30	$0.5 \times 0.09 =$	
9	$3 \times 0.03 =$		31	$0.9 \times 0.05 =$	
10	$4 \times 3 =$		32	$2 \times 6 =$	
11	$4 \times 0.3 =$		33	$7 \times 0.2 =$	
12	$4 \times 0.03 =$		34	$3 \times 8 =$	
13	$9 \times 2 =$		35	$9 \times 0.03 =$	
14	$9 \times 0.2 =$		36	$4 \times 8 =$	
15	$9 \times 0.02 =$		37	$0.7 \times 6 =$	
16	$5 \times 3 =$		38	$0.6 \times 0.6 =$	
17	$5 \times 0.3 =$		39	$0.6 \times 0.08 =$	
18	$0.5 \times 3 =$		40	$0.06 \times 0.9 =$	
19	$0.5 \times 0.3 =$		41	$8 \times 0.6 =$	
20	$0.5 \times 0.03 =$		42	$0.9 \times 0.7 =$	
21	$0.3 \times 0.05 =$		43	$0.07 \times 0.7 =$	
22	$8 \times 2 =$		44	$0.8 \times 0.09 =$	

SPRINT #10

A

Correct _____

Divide.

1	$1 \div 1 =$		23	$5 \div 0.1 =$	
2	$1 \div 0.1 =$		24	$0.5 \div 0.1 =$	
3	$2 \div 0.1 =$		25	$0.05 \div 0.1 =$	
4	$7 \div 0.1 =$		26	$0.08 \div 0.1 =$	
5	$1 \div 0.1 =$		27	$4 \div 0.01 =$	
6	$10 \div 0.1 =$		28	$40 \div 0.01 =$	
7	$20 \div 0.1 =$		29	$47 \div 0.01 =$	
8	$60 \div 0.1 =$		30	$59 \div 0.01 =$	
9	$1 \div 1 =$		31	$3 \div 0.1 =$	
10	$1 \div 0.1 =$		32	$30 \div 0.1 =$	
11	$10 \div 0.1 =$		33	$32 \div 0.1 =$	
12	$100 \div 0.1 =$		34	$32.5 \div 0.1 =$	
13	$200 \div 0.1 =$		35	$25 \div 5 =$	
14	$800 \div 0.1 =$		36	$2.5 \div 0.5 =$	
15	$1 \div 0.1 =$		37	$2.5 \div 0.05 =$	
16	$1 \div 0.01 =$		38	$3.6 \div 0.04 =$	
17	$2 \div 0.01 =$		39	$32 \div 0.08 =$	
18	$9 \div 0.01 =$		40	$56 \div 0.7 =$	
19	$5 \div 0.01 =$		41	$77 \div 1.1 =$	
20	$50 \div 0.01 =$		42	$4.8 \div 0.12 =$	
21	$60 \div 0.01 =$		43	$4.84 \div 0.4 =$	
22	$20 \div 0.01 =$		44	$9.63 \div 0.03 =$	

B

Improvement _____

Correct _____

Divide.

1	$10 \div 1 =$		23	$4 \div 0.1 =$	
2	$1 \div 0.1 =$		24	$0.4 \div 0.1 =$	
3	$2 \div 0.1 =$		25	$0.04 \div 0.1 =$	
4	$8 \div 0.1 =$		26	$0.07 \div 0.1 =$	
5	$1 \div 0.1 =$		27	$5 \div 0.01 =$	
6	$10 \div 0.1 =$		28	$50 \div 0.01 =$	
7	$20 \div 0.1 =$		29	$53 \div 0.01 =$	
8	$70 \div 0.1 =$		30	$68 \div 0.01 =$	
9	$1 \div 1 =$		31	$2 \div 0.1 =$	
10	$1 \div 0.1 =$		32	$20 \div 0.1 =$	
11	$10 \div 0.1 =$		33	$23 \div 0.1 =$	
12	$100 \div 0.1 =$		34	$23.6 \div 0.1 =$	
13	$200 \div 0.1 =$		35	$15 \div 5 =$	
14	$900 \div 0.1 =$		36	$1.5 \div 0.5 =$	
15	$1 \div 0.1 =$		37	$1.5 \div 0.05 =$	
16	$1 \div 0.01 =$		38	$3.2 \div 0.04 =$	
17	$2 \div 0.01 =$		39	$28 \div 0.07 =$	
18	$7 \div 0.01 =$		40	$42 \div 0.6 =$	
19	$4 \div 0.01 =$		41	$88 \div 1.1 =$	
20	$40 \div 0.01 =$		42	$3.6 \div 0.12 =$	
21	$50 \div 0.01 =$		43	$3.63 \div 0.3 =$	
22	$80 \div 0.01 =$		44	$8.44 \div 0.04 =$	

VOCABULARY GAMES

Attribute Buzz:

Number of players: 2

Description: Players place geometry vocabulary cards face down in a pile and, as they select cards, name the attributes of each figure within 1 minute.

- Player A flips the first card and says as many attributes as possible within 30 seconds.
- Player B says, “Buzz,” when or if Player A states an incorrect attribute or time is up.
- Player B explains why the attribute is incorrect (if applicable), and can then start listing attributes about the figure for 30 seconds.
- Players score a point for each correct attribute.

Play continues until students have exhausted the figure’s attributes. A new card is selected and play continues. The player with the most points at the end of the game wins.

Concentration:

Number of players: 2–6

Description: Players persevere to match term cards with their definition and description cards.

- Create two identical arrays side by side, one of term cards and one of definition and description cards.
- Players take turns flipping over pairs of cards to find a match. A match is a vocabulary term and its definition or description card. Cards keep their precise location in the array if not matched. Remaining cards are not reconfigured into a new array.
- After all cards are matched, the player with the most pairs is the winner.

Three Questions to Guess my Term!

Number of players: 2–4

Description: A player selects and secretly views a term card. Other players take turns asking yes or no questions about the term.

- Players can keep track of what they know about the term on paper.
- Only yes or no questions are allowed (e.g., “What kind of angles do you have?” is not allowed.)
- A final guess must be made after 3 questions, but may be made sooner. Once a player says, “This is my guess,” no more questions may be asked by that player.
- If the term is guessed correctly after 1 or 2 questions, 2 points are earned. If all 3 questions are used, only 1 point is earned.
- If no player guesses correctly, the card holder receives the point.
- The game continues as the player to the card holder’s left selects a new card and questioning begins again.
- The game ends when a player reaches a predetermined score.

Bingo:

Number of players: 4–whole class

Description: Players match definitions to terms to be the first to fill a row, column or diagonal.

- Players write a vocabulary term in each box of the math bingo game template. Each term should be used only once. The box that says Math Bingo is a free space.
- Players place the filled-in math bingo template in their personal boards.
- One person is the caller and reads the definition on a vocabulary card.
- Players cross off or cover the term that matches the definition.
- “Bingo!” is called when 5 vocabulary terms in a row are crossed off diagonally, vertically, or horizontally. The free space counts as 1 box towards the needed 5 vocabulary terms.
- The first player to have 5 in a row, reads each crossed off word, states the definition, and gives a description or an example of each word. If all words are reasonably explained as determined by the caller, the player is declared the winner.

A quadrilateral with two pairs of equal sides that are also adjacent.	An angle that turns through $\frac{1}{360}$ of a circle.	A quadrilateral with at least one pair of parallel lines.	A closed figure made up of line segments.
Measurement of space or capacity.	A quadrilateral with opposite sides that are parallel.	An angle measuring 90 degrees.	The union of two different rays sharing a common vertex.
The number of square units that covers a two-dimensional shape.	Two lines in a plane that do not intersect.	The number of adjacent layers of the base that form a rectangular prism.	A three-dimensional figure with six square sides.
A quadrilateral with four 90-degree angles.	A polygon with 4 sides and 4 angles.	A parallelogram with all equal sides.	Cubes of the same size used for measuring.
Two intersecting lines that form 90-degree angles.	A three-dimensional figure with six rectangular sides.	A three-dimensional figure.	Any flat surface of a 3-D figure.
A line that cuts a line segment into two equal parts at 90 degrees.	Squares of the same size, used for measuring.	A rectangular prism with only 90-degree angles.	One face of a 3-D solid, often thought of as the surface upon which the solid rests.

Base	Volume of a Solid	Cubic Units	Kite
Height	One-Degree Angle	Face	Trapezoid
Right Rectangular Prism	Perpendicular Bisector	Cube	Area
Perpendicular Lines	Rhombus	Parallel Lines	Angle
Polygon	Rectangular Prism	Parallelogram	Rectangle
Right Angle	Quadrilateral	Solid Figure	Square Units

		Math BINGO!		

		Math BINGO!		

Math Vocabulary Definitions

Angle: The union of two different rays sharing a common vertex.

Area: The number of square units that covers a two-dimensional shape.

Base: One face of a 3-D solid, often thought of as the surface upon which the solid rests.

Cube: A three-dimensional figure with six square sides.

Cubic Units: Cubes of the same size used for measuring.

Face: Any flat surface of a 3-D figure.

Height: The number of adjacent layers of the base that form a rectangular prism.

Kite: A quadrilateral with two pairs of equal sides that are also adjacent.

One-Degree Angle: An angle that turns through $\frac{1}{360}$ of a circle.

Parallel Lines: Two lines in a plane that do not intersect.

Parallelogram: A quadrilateral with opposite sides that are parallel.

Perpendicular Bisector: A line that cuts a line segment into two equal parts at 90 degrees.

Perpendicular Lines: Two intersecting lines that form 90-degree angles.

Polygon: A closed figure made up of line segments.

Quadrilateral: A polygon with 4 sides and 4 angles.

Rectangle: A quadrilateral with four 90-degree angles.

Rectangular Prism: A three-dimensional figure with six rectangular sides.

Rhombus: A parallelogram with all equal sides.

Right Angle: An angle measuring 90 degrees.

Right Rectangular Prism: A rectangular prism with only 90-degree angles.

Solid Figure: A three-dimensional figure.

Square Units: Squares of the same size, used for measuring.

Trapezoid: A quadrilateral with at least one pair of parallel lines.

Volume of a Solid: Measurement of space or capacity.