

Name _____

4th Grade Summer Math Calendar

Complete a math fluency activity (see attached) and a word problem 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	Fluency: Convert Units Word Problem: A ladder is 30 feet tall. It is 5 times as tall as Mr. Jones. How tall is Mr. Jones? Explain your thinking.	Fluency: Add Large Numbers Word Problem: The following multiplication problems have the same product: $9 \times 24 = ?$, $24 \times 9 = ?$ Find two other multiplication problems that have this product. Explain your strategy.	Fluency: Subtract Large Numbers Vocabulary: Play a vocabulary game.	Fluency: Multiply Mentally Vocabulary: Play a vocabulary game.	Complete Sprint 1.
Week 2	Fluency: Divide Mentally Word Problem: Sarah solved two word problems correctly. The answer to the first problem was 7 R2. The answer to the second problem was $7\frac{1}{2}$. What might the two problems have been?	Fluency: State the Value of a Set of Coins Word Problem: $___ \times 3 = ___$ What factor can you use in this equation to make a product that is even and between 20 and 50? Show all possible solutions and explain your strategy.	Fluency: Break Apart 180° Word Problem: $4 \times ___ = ___$ What factor can you use to make a product that ends in zero and is between 199 and 301? Show all possible solutions. Explain your strategy.	Fluency: Convert Units Word Problem: Sam read for 5 minutes on Monday, 10 minutes on Tuesday, and 20 minutes on Wednesday. If the pattern continued, how long would Sam have read for, in total, by the end of the week? Explain your thinking.	Complete Sprint 2.

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 3	<p>Fluency: Add Large Numbers</p> <p>Word Problem: A man ate 100 cookies in 5 days. Each day he ate 6 more than the day before. How many cookies did he eat on the first day? Explain your thinking.</p>	<p>Fluency: Subtract Large Numbers</p> <p>Word Problem: Record a number sequence of at least 10 numbers where each number is six more than the previous number.</p>	<p>Fluency: Multiply Mentally</p> <p>Word Problem: I rounded two numbers to the nearest hundred and added them for a sum of 500. What might the two numbers have been? Show 5 possible solutions.</p>	<p>Fluency: Divide Mentally</p> <p>Word Problem: Some people were seated in a concert hall. 27 more people entered the hall after the concert began, making a total of 232 people in the concert hall. How many people were seated before the concert began? Solve this problem in two ways. Show your work and explain your thinking.</p>	Complete Sprint 3.
Week 4	<p>Fluency: State the Value of a Set of Coins</p> <p>Word Problem: Two numbers multiply to make 160. One of the numbers ends in zero. What might the two numbers be? Show all possible solutions.</p>	<p>Fluency: Break Apart 180°</p> <p>Word Problem: The difference between two three-digit numbers is 39. What might the two numbers be? Show 5 possible solutions. Explain your strategy.</p>	<p>Fluency: Convert Units</p> <p>Vocabulary: Play a vocabulary game.</p>	<p>Fluency: Add Large Numbers</p> <p>Vocabulary: Play a vocabulary game.</p>	Complete Sprint 4.
Week 5	<p>Fluency: Subtract Large Numbers</p> <p>Word Problem: Describe how you would find the difference between 118 and 151 in your head. Show two other problems that you could solve using this strategy.</p>	<p>Fluency: Multiply Mentally</p> <p>Word Problem: Describe how you would find the sum of 300 and 306 in your head. Show three other problems that you could solve using this strategy.</p>	<p>Fluency: Divide Mentally</p> <p>Word Problem: Complete the following equation in as many different ways as you can:</p> $2 \times 12 = \underline{\quad} \times \underline{\quad}$ <p>Explain your strategy.</p>	<p>Fluency: State the Value of a Set of Coins</p> <p>Word Problem: A box contained 127 oranges. Some apples were eaten at lunchtime, leaving 66 oranges in the box. How many oranges were eaten at lunchtime? Solve this problem in two ways. Show your work and explain your thinking.</p>	Complete Sprint 5.

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 6	Fluency: Break Apart 180° Word Problem: Which is larger, $\frac{2}{3}$ or $\frac{3}{4}$? Explain your reasoning.	Fluency: Convert Units Word Problem: Mr. Jones blew out $\frac{3}{4}$ of the candles on his birthday cake. How many candles might there have been on the cake and how many did Mr. Jones blow out? How old might Mr. Jones be? Explain your reasoning.	Fluency: Add Large Numbers Word Problem: When added together, two mixed numbers (whole number and fraction) equal 7. What might the two mixed numbers be?	Fluency: Subtract Large Numbers Word Problem: The difference between two mixed numbers is $5\frac{1}{4}$. What might the two mixed numbers be?	Complete Sprint 6.
Week 7	Fluency: Multiply Mentally Word Problem: Write a word problem using the following equation: $3 \times \frac{2}{5}$. Solve the problem in two different ways. Explain your work.	Fluency: Divide Mentally Word Problem: What two fractions might I subtract to get an answer of $\frac{3}{4}$?	Fluency: State the Value of a Set of Coins Vocabulary: Play a vocabulary game.	Fluency: Break Apart 180° Vocabulary: Play a vocabulary game.	Complete Sprint 7.
Week 8	Fluency: Convert Units Word Problem: Which is larger 0.9 or 0.13? Explain your reasoning.	Fluency: Add Large Numbers Word Problem: Classify the following decimals as: Near to 0, About $\frac{1}{2}$, or Close to 1. 0.4, .15, .8, 0.33, 0.94 Explain your reasoning. Name 3 other decimals that belong to each group.	Fluency: Subtract Large Numbers Word Problem: How many different decimal numbers can you write using the digits 7, 0, and 8? Order your numbers from smallest to largest. What is the difference between the smallest and largest decimal numbers?	Fluency: Multiply Mentally Word Problem: How many different decimal numbers can you write using the digits 3, 1, and 9? Order your numbers from smallest to largest. What is the difference between the smallest and largest decimal numbers?	Complete Sprint 8.

Monday	Monday	Tuesday	Wednesday	Thursday	Friday
Week 9	<p>Fluency: Divide Mentally</p> <p>Word Problem: The perimeter of a rectangle is 24 cm. What are some possible lengths and widths? Record.</p>	<p>Fluency: State the Value of a Set of Coins</p> <p>Word Problem: The area of a rectangle is 36 square inches. What might the width and length be? Which possibility gives the smallest perimeter?</p>	<p>Fluency: Break Apart 180°</p> <p>Word Problem: Tara is designing a run for her pet rabbit. The run must be rectangular with whole number dimensions. If Tara wants to enclose 48 square feet, how many options does she have?</p>	<p>Fluency: Convert Units</p> <p>Word Problem: Draw and label three different rectangles with a perimeter of 12cm. Compare their areas.</p>	Complete Sprint 9.
Week 10	<p>Fluency: Add Large Numbers</p> <p>Word Problem: Tom drew a right triangle and marked the right angle. What might the measures of the second and third angles be? Show 5 different possible solutions.</p>	<p>Fluency: Subtract Large Numbers</p> <p>Word Problem: I drew a shape. The total of the interior angles in my shape was 180°. What might my shape have looked like?</p>	<p>Fluency: Multiply Mentally</p> <p>Vocabulary: Play a vocabulary game.</p>	<p>Fluency: Divide Mentally</p> <p>Vocabulary: Play a vocabulary game.</p>	Complete Sprint 10.

FLUENCY ACTIVITIES

Name _____

Date _____

Convert Units: Teacher Card

Materials: (S) Mini-personal boards

T: (Write 1 m 20 cm = _____ cm.)1 m 20 cm is how many centimeters?S: 120 centimeters.

Repeat the process with this sequence:

$$1 \text{ m } 80 \text{ cm} = 180 \text{ cm}$$

$$3 \text{ km } 249 \text{ m} = 3,249 \text{ m}$$

$$4 \text{ L } 71 \text{ mL} = 4,071 \text{ mL}$$

$$2 \text{ kg } 5 \text{ g} = 2,005 \text{ g}$$

New Problem

T: (Write _____ = _____.)

_____ is how many _____?

S: _____.

Add Large Numbers: Teacher Card

Materials: (S) Mini-personal boards

T: (Write 747 thousands 585 ones.)

On your boards, write this number in standard form.

S: (Write 747,585.)T: (Write 242 thousands 819 ones.)Add this number to 747,585 using the standard algorithm.S: (Write $747,585 + 242,819 = 990,404$ using the standard algorithm.)

Continue the process with this sequence:

$$528,649 + 247,922 = 776,571$$

$$348,587 + 629,357 = 977,944$$

$$426,099 + 397,183 = 823,282.$$

New Problem

T: (Write _____ thousands _____ ones.)

On your boards, write this number in standard form.

S: (Write _____.)

T: (Write _____ thousands _____ ones.)

Add this number to _____ using the standard algorithm.

S: (_____ + _____ = _____ using the standard algorithm.)

Subtract Large Numbers: Teacher Card

Materials: (S) Mini-personal boards

T: (Write 600 thousands.) On your boards, write this number in standard form.

S: (Write 600,000.)

T: (Write 545 thousands 543 ones.) Subtract this number from 600,000 using the standard algorithm.

S: (Write $600,000 - 545,543 = 54,457$ using the standard algorithm.)

Continue the process with this sequence:

$$400,000 - 251,559 = 148,441$$

$$700,000 - 385,476 = 314,524$$

$$600,024 - 197,088 = 402,936.$$

New Problem

T: (Write _____ thousands.) On your boards, write this number in standard form.

S: (Write _____.)

T: (Write _____ thousands _____ ones.)

Subtract this number from _____ using the standard algorithm.

S: (_____ - _____ = _____ using the standard algorithm.)

Multiply Mentally: Teacher Card

Materials: (S) Mini-personal boards

T: (Write $32 \times 3 = \underline{\quad}$.)

Say the multiplication sentence.

S: $32 \times 3 = 96$.

T: (Write $32 \times 3 = 96$. Below it, write $32 \times 20 = \underline{\quad}$.)

Say the multiplication sentence.

S: $32 \times 20 = 640$.

T: (Write $32 \times 20 = 640$. Below it, write $32 \times 23 = \underline{\quad}$.)

On your board, solve 32×23 .

S: (Write $32 \times 23 = 736$.)

Repeat the process with this sequence:

$$42 \times 2 = 84, 42 \times 20 = 840, 42 \times 22 = 924$$

$$31 \times 4 = 124, 31 \times 40 = 1,240, 31 \times 44 = 1,364.$$

New Problem

T: (Write _____ \times _____ = _____.)

Say the multiplication sentence.

S: _____ \times _____ = _____

T: (Write _____ \times _____ = _____. Below it, write _____ \times _____ = _____.)

Say the multiplication sentence.

S: _____ \times _____ = _____.

T: (Write _____ \times _____ = _____. Below it, write _____ \times _____ = _____.)

On your board, solve _____ \times _____.

S: (Write _____ \times _____ = _____.)

Divide Mentally: Teacher Card

Materials: (S) Mini-personal boards

T: (Write $40 \div 2$.) Write the division sentence in unit form.

S: $4 \text{ tens} \div 2 = 2 \text{ tens}$.

T: (To the right, write $8 \div 2$.) Write the division sentence in unit form.

S: $8 \text{ ones} \div 2 = 4 \text{ ones}$.

T: (Write $48 \div 2$.) Write the complete division sentence in unit form.

S: $4 \text{ tens } 8 \text{ ones} \div 2 = 2 \text{ tens } 4 \text{ ones}$.

T: Say the division sentence.

S: $48 \div 2 = 24$.

Continue the process with this sequence:

$$93 \div 3 = 31$$

$$88 \div 4 = 22$$

$$186 \div 6 = 24$$

New Problem

T: (Write _____.) Write the division sentence in unit form.

S: ____ tens \div ____ = ____ tens.

T: (To the right, write ____ \div ____.) Write the division sentence in unit form.

S: ____ ones \div ____ = ____ ones.

T: (Write _____.) Write the complete division sentence in unit form.

S: ____ tens ____ ones \div ____ = ____ tens ____ ones.

T: Say the division sentence.

S: ____ \div ____ = ____.

State the Value of a Set of Coins: Teacher Card

Materials: (S) Mini-personal board

T: (Draw 2 quarters and 4 dimes as number disks labeled 25¢ and 10¢.) What's the value of 2 quarters and 4 dimes?

S: 90¢.

T: Write 90 cents as a fraction of a dollar.

S: (Write $\frac{90}{100}$ dollar.)

T: Write 90 cents in decimal form using the dollar sign.

S: (Write \$0.90.)

Continue the process with this sequence:

1 quarter 9 dimes 12 pennies = 127¢, $\frac{127}{100}$ dollar, \$1.27

3 quarters 5 dimes 20 pennies = 145¢, $\frac{145}{100}$ dollar, \$1.45

New Problems

T: (Draw _____ quarters and _____ dimes as number disks.) What's the value of _____?

S: _____.

T: Write _____ cents as a fraction of a dollar.

S: (Write _____ dollar.)

T: Write _____ cents in decimal form using the dollar sign.

S: (Write \$ _____.)

Break Apart 180°: Teacher Card

Materials: (S) Mini-personal boards, protractors, straightedge

T: (Project a number bond with a whole of 180°. Fill in 80° for one of the parts.) On your boards, complete the number bond, filling in the unknown part.

S: (Draw a number bond with a whole of 180°, and 80° and 100° as parts.)

T: Use your protractor to draw the pair of angles.

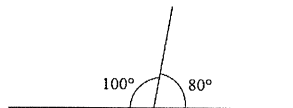
S: (Draw and label the two angles that make 180°.)

Continue the process for

$$120^\circ + 60^\circ = 180^\circ$$

$$35^\circ + 145^\circ = 180^\circ$$

$$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = 180^\circ$$

**New Problems**

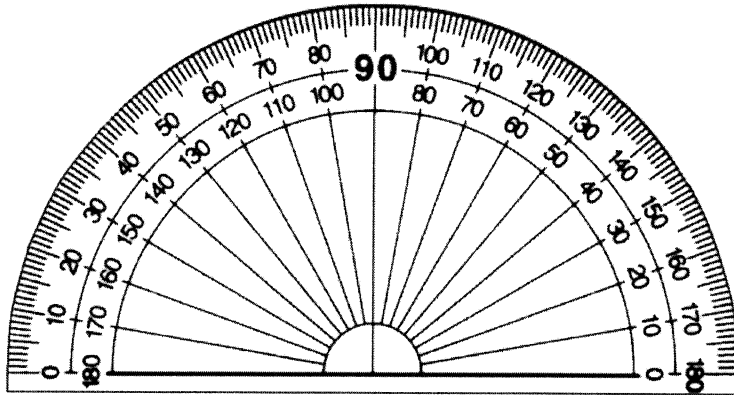
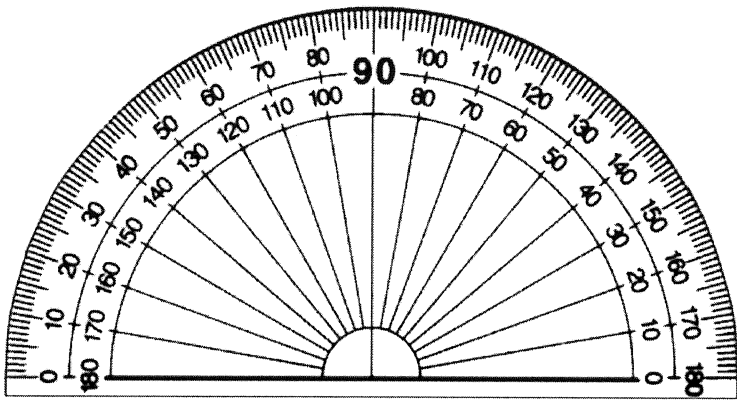
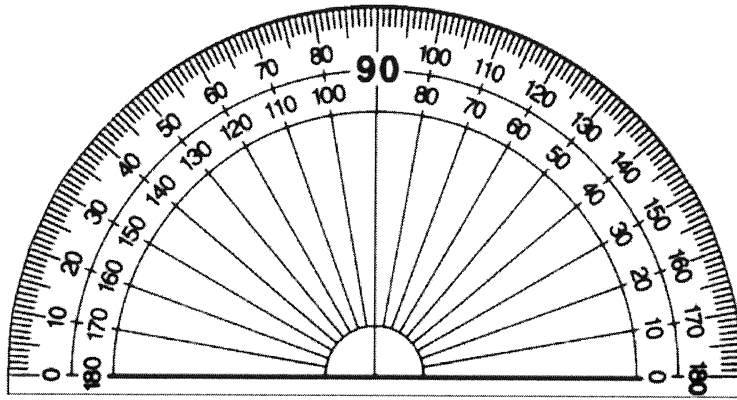
T: (Project a number bond with a whole of 180°. Fill in _____° for one of the parts.)

On your boards, complete the number bond, filling in the unknown part.

S: (Draw a number bond with a whole of 180°, and _____° and _____° as parts.)

T: Use your protractor to draw the pair of angles.

S: (Draw and label the two angles that make 180°.)



SPRINT # 1

A

Correct _____

Divide.

1	$20 \div 10 =$		23	$50 \div 10 =$	
2	$30 \div 10 =$		24	$850 \div 10 =$	
3	$40 \div 10 =$		25	$1850 \div 10 =$	
4	$80 \div 10 =$		26	$70 \div 10 =$	
5	$50 \div 10 =$		27	$270 \div 10 =$	
6	$90 \div 10 =$		28	$4270 \div 10 =$	
7	$70 \div 10 =$		29	$90 \div 10 =$	
8	$60 \div 10 =$		30	$590 \div 10 =$	
9	$10 \div 10 =$		31	$7590 \div 10 =$	
10	$100 \div 10 =$		32	$120 \div 10 =$	
11	$20 \div 10 =$		33	$1200 \div 10 =$	
12	$120 \div 10 =$		34	$2000 \div 10 =$	
13	$50 \div 10 =$		35	$240 \div 10 =$	
14	$150 \div 10 =$		36	$2400 \div 10 =$	
15	$80 \div 10 =$		37	$4000 \div 10 =$	
16	$180 \div 10 =$		38	$690 \div 10 =$	
17	$280 \div 10 =$		39	$6900 \div 10 =$	
18	$380 \div 10 =$		40	$9000 \div 10 =$	
19	$680 \div 10 =$		41	$940 \div 10 =$	
20	$640 \div 10 =$		42	$5280 \div 10 =$	
21	$870 \div 10 =$		43	$6700 \div 10 =$	
22	$430 \div 10 =$		44	$7000 \div 10 =$	

B

Improvement _____

Correct _____

Divide.

1	$10 \div 10 =$		23	$40 \div 10 =$	
2	$20 \div 10 =$		24	$840 \div 10 =$	
3	$30 \div 10 =$		25	$1840 \div 10 =$	
4	$70 \div 10 =$		26	$80 \div 10 =$	
5	$40 \div 10 =$		27	$280 \div 10 =$	
6	$80 \div 10 =$		28	$4280 \div 10 =$	
7	$60 \div 10 =$		29	$60 \div 10 =$	
8	$50 \div 10 =$		30	$560 \div 10 =$	
9	$90 \div 10 =$		31	$7560 \div 10 =$	
10	$100 \div 10 =$		32	$130 \div 10 =$	
11	$30 \div 10 =$		33	$1300 \div 10 =$	
12	$130 \div 10 =$		34	$3000 \div 10 =$	
13	$60 \div 10 =$		35	$250 \div 10 =$	
14	$160 \div 10 =$		36	$2500 \div 10 =$	
15	$90 \div 10 =$		37	$5000 \div 10 =$	
16	$190 \div 10 =$		38	$740 \div 10 =$	
17	$290 \div 10 =$		39	$7400 \div 10 =$	
18	$390 \div 10 =$		40	$4000 \div 10 =$	
19	$690 \div 10 =$		41	$910 \div 10 =$	
20	$650 \div 10 =$		42	$5820 \div 10 =$	
21	$860 \div 10 =$		43	$7600 \div 10 =$	
22	$420 \div 10 =$		44	$6000 \div 10 =$	

SPRINT #2

A

Correct _____

Divide.

1	$6 \div 2 =$		23	$300 \div 5 =$	
2	$60 \div 2 =$		24	$3000 \div 5 =$	
3	$600 \div 2 =$		25	$16 \div 4 =$	
4	$6000 \div 2 =$		26	$160 \div 4 =$	
5	$9 \div 3 =$		27	$18 \div 6 =$	
6	$90 \div 3 =$		28	$1800 \div 6 =$	
7	$900 \div 3 =$		29	$28 \div 7 =$	
8	$9000 \div 3 =$		30	$280 \div 7 =$	
9	$10 \div 5 =$		31	$48 \div 8 =$	
10	$15 \div 5 =$		32	$4800 \div 8 =$	
11	$150 \div 5 =$		33	$6300 \div 9 =$	
12	$1500 \div 5 =$		34	$200 \div 5 =$	
13	$2500 \div 5 =$		35	$560 \div 7 =$	
14	$3500 \div 5 =$		36	$7200 \div 9 =$	
15	$4500 \div 5 =$		37	$480 \div 6 =$	
16	$450 \div 5 =$		38	$5600 \div 8 =$	
17	$8 \div 4 =$		39	$400 \div 5 =$	
18	$12 \div 4 =$		40	$6300 \div 7 =$	
19	$120 \div 4 =$		41	$810 \div 9 =$	
20	$1200 \div 4 =$		42	$640 \div 8 =$	
21	$25 \div 5 =$		43	$5400 \div 6 =$	
22	$30 \div 5 =$		44	$4000 \div 5 =$	

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B

Improvement _____ # Correct _____

Add.

1	$4 \div 2 =$		23	$200 \div 5 =$	
2	$40 \div 2 =$		24	$2000 \div 5 =$	
3	$400 \div 2 =$		25	$12 \div 4 =$	
4	$4000 \div 2 =$		26	$120 \div 4 =$	
5	$6 \div 3 =$		27	$21 \div 7 =$	
6	$60 \div 3 =$		28	$2100 \div 7 =$	
7	$600 \div 3 =$		29	$18 \div 6 =$	
8	$6000 \div 3 =$		30	$180 \div 6 =$	
9	$10 \div 5 =$		31	$54 \div 9 =$	
10	$15 \div 5 =$		32	$5400 \div 9 =$	
11	$150 \div 5 =$		33	$5600 \div 8 =$	
12	$250 \div 5 =$		34	$300 \div 5 =$	
13	$350 \div 5 =$		35	$490 \div 7 =$	
14	$3500 \div 5 =$		36	$6300 \div 9 =$	
15	$4500 \div 5 =$		37	$420 \div 6 =$	
16	$450 \div 5 =$		38	$4800 \div 8 =$	
17	$9 \div 3 =$		39	$4000 \div 5 =$	
18	$12 \div 3 =$		40	$560 \div 8 =$	
19	$120 \div 3 =$		41	$6400 \div 8 =$	
20	$1200 \div 3 =$		42	$720 \div 8 =$	
21	$25 \div 5 =$		43	$4800 \div 6 =$	
22	$20 \div 5 =$		44	$400 \div 5 =$	

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SPRINT #3**A**

Correct _____

Round to the nearest ten thousand.

1	21,000 \approx		23	185,000 \approx	
2	31,000 \approx		24	85,000 \approx	
3	41,000 \approx		25	95,000 \approx	
4	541,000 =		26	97,000 \approx	
5	49,000 \approx		27	98,000 \approx	
6	59,000 \approx		28	198,000 \approx	
7	69,000 \approx		29	798,000 \approx	
8	369,000 \approx		30	31,200 \approx	
9	62,000 \approx		31	49,300 \approx	
10	712,000 \approx		32	649,300 \approx	
11	28,000 \approx		33	64,520 \approx	
12	37,000 \approx		34	164,520 \approx	
13	137,000 \approx		35	17,742 \approx	
14	44,000 \approx		36	917,742 \approx	
15	56,000 \approx		37	38,396 \approx	
16	456,000 \approx		38	64,501 \approx	
17	15,000 \approx		39	703,280 \approx	
18	25,000 \approx		40	239,500 \approx	
19	35,000 \approx		41	708,170 \approx	
20	235,000 \approx		42	188,631 \approx	
21	75,000 \approx		43	777,499 \approx	
22	175,000 \approx		44	444,919 \approx	

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B Improvement _____ # Correct _____

Round to the nearest ten thousand.

1	11,000 ≈		23	185,000 ≈	
2	21,000 ≈		24	85,000 ≈	
3	31,000 ≈		25	95,000 ≈	
4	531,000 =		26	96,000 ≈	
5	39,000 ≈		27	99,000 ≈	
6	49,000 ≈		28	199,000 ≈	
7	59,000 ≈		29	799,000 ≈	
8	359,000 ≈		30	21,200 ≈	
9	52,000 ≈		31	39,300 ≈	
10	612,000 ≈		32	639,300 ≈	
11	18,000 ≈		33	54,520 ≈	
12	27,000 ≈		34	154,520 ≈	
13	127,000 ≈		35	27,742 ≈	
14	34,000 ≈		36	927,742 ≈	
15	46,000 ≈		37	28,396 ≈	
16	346,000 ≈		38	54,501 ≈	
17	25,000 ≈		39	603,280 ≈	
18	35,000 ≈		40	139,500 ≈	
19	45,000 ≈		41	608,170 ≈	
20	245,000 ≈		42	177,631 ≈	
21	65,000 ≈		43	888,499 ≈	
22	165,000 ≈		44	444,909 ≈	

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SPRINT #4**A**

Correct _____

Write in centimeters.

1	2 m =	cm	23	1 m 2 cm =	cm
2	3 m =	cm	24	1 m 3 cm =	cm
3	4 m =	cm	25	1 m 4 cm =	cm
4	9 m =	cm	26	1 m 7 cm =	cm
5	1 m =	cm	27	2 m 7 cm =	cm
6	7 m =	cm	28	3 m 7 cm =	cm
7	5 m =	cm	29	8 m 7 cm =	cm
8	8 m =	cm	30	8 m 4 cm =	cm
9	6 m =	cm	31	4 m 9 cm =	cm
10	1 m 20 cm =	cm	32	6 m 8 cm =	cm
11	1 m 30 cm =	cm	33	9 m 3 cm =	cm
12	1 m 40 cm =	cm	34	2 m 60 cm =	cm
13	1 m 90 cm =	cm	35	3 m 75 cm =	cm
14	1 m 95 cm =	cm	36	6 m 33 cm =	cm
15	1 m 85 cm =	cm	37	8 m 9 cm =	cm
16	1 m 84 cm =	cm	38	4 m 70 cm =	cm
17	1 m 73 cm =	cm	39	7 m 35 cm =	cm
18	1 m 62 cm =	cm	40	4 m 17 cm =	cm
19	2 m 62 cm =	cm	41	6 m 4 cm =	cm
20	7 m 62 cm =	cm	42	10 m 4 cm =	cm
21	5 m 27 cm =	cm	43	10 m 40 cm =	cm
22	3 m 87 cm =	cm	44	11 m 84 cm =	cm

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B

Improvement _____ # Correct _____

Write in centimeters.

1	1 m =	cm	23	1 m 1 cm =	cm
2	2 m =	cm	24	1 m 2 cm =	cm
3	3 m =	cm	25	1 m 3 cm =	cm
4	7 m =	cm	26	1 m 9 cm =	cm
5	5 m =	cm	27	2 m 9 cm =	cm
6	9 m =	cm	28	3 m 9 cm =	cm
7	4 m =	cm	29	7 m 9 cm =	cm
8	8 m =	cm	30	7 m 4 cm =	cm
9	6 m =	cm	31	4 m 8 cm =	cm
10	1 m 10 cm =	cm	32	6 m 3 cm =	cm
11	1 m 20 cm =	cm	33	9 m 5 cm =	cm
12	1 m 30 cm =	cm	34	2 m 50 cm =	cm
13	1 m 70 cm =	cm	35	3 m 85 cm =	cm
14	1 m 75 cm =	cm	36	6 m 31 cm =	cm
15	1 m 65 cm =	cm	37	6 m 7 cm =	cm
16	1 m 64 cm =	cm	38	4 m 60 cm =	cm
17	1 m 53 cm =	cm	39	7 m 25 cm =	cm
18	1 m 42 cm =	cm	40	4 m 13 cm =	cm
19	2 m 42 cm =	cm	41	6 m 2 cm =	cm
20	8 m 42 cm =	cm	42	10 m 3 cm =	cm
21	5 m 29 cm =	cm	43	10 m 30 cm =	cm
22	3 m 89 cm =	cm	44	11 m 48 cm =	cm

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SPRINT #5

A

Correct _____

1	$8 \div 2$	Q = _____ R = _____	23	$6 \div 2$	Q = _____ R = _____
2	$9 \div 2$	Q = _____ R = _____	24	$7 \div 2$	Q = _____ R = _____
3	$4 \div 4$	Q = _____ R = _____	25	$3 \div 3$	Q = _____ R = _____
4	$5 \div 4$	Q = _____ R = _____	26	$4 \div 3$	Q = _____ R = _____
5	$7 \div 5$	Q = _____ R = _____	27	$6 \div 4$	Q = _____ R = _____
6	$8 \div 5$	Q = _____ R = _____	28	$7 \div 4$	Q = _____ R = _____
7	$5 \div 3$	Q = _____ R = _____	29	$6 \div 6$	Q = _____ R = _____
8	$6 \div 3$	Q = _____ R = _____	30	$7 \div 6$	Q = _____ R = _____
9	$8 \div 4$	Q = _____ R = _____	31	$4 \div 2$	Q = _____ R = _____
10	$9 \div 4$	Q = _____ R = _____	32	$5 \div 2$	Q = _____ R = _____
11	$2 \div 2$	Q = _____ R = _____	33	$9 \div 3$	Q = _____ R = _____
12	$3 \div 2$	Q = _____ R = _____	34	$9 \div 5$	Q = _____ R = _____
13	$7 \div 3$	Q = _____ R = _____	35	$7 \div 7$	Q = _____ R = _____
14	$8 \div 3$	Q = _____ R = _____	36	$9 \div 9$	Q = _____ R = _____
15	$9 \div 3$	Q = _____ R = _____	37	$13 \div 4$	Q = _____ R = _____
16	$8 \div 6$	Q = _____ R = _____	38	$18 \div 5$	Q = _____ R = _____
17	$9 \div 6$	Q = _____ R = _____	39	$21 \div 6$	Q = _____ R = _____
18	$5 \div 5$	Q = _____ R = _____	40	$24 \div 7$	Q = _____ R = _____
19	$6 \div 5$	Q = _____ R = _____	41	$29 \div 8$	Q = _____ R = _____
20	$8 \div 8$	Q = _____ R = _____	42	$43 \div 6$	Q = _____ R = _____
21	$9 \div 8$	Q = _____ R = _____	43	$53 \div 6$	Q = _____ R = _____
22	$9 \div 9$	Q = _____ R = _____	44	$82 \div 9$	Q = _____ R = _____

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B

Improvement _____

Correct _____

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

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SPRINT #6

A

Correct _____

Solve.

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

B Improvement _____ # Correct _____

Solve.

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

SPRINT #7

A

Correct _____

Subtract.

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

B

Improvement _____

Correct _____

Subtract.

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

SPRINT #8

A

Correct _____

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

B

Improvement _____

Correct _____

1	$6 = 5 + \underline{\hspace{1cm}}$		23	$\frac{4}{2} = \underline{\hspace{1cm}}$	
2	$\frac{6}{5} = \frac{5}{5} + \frac{\hspace{0.5cm}}{5}$		24	$\frac{\hspace{0.5cm}}{2} = \frac{4}{2} + \frac{1}{2}$	
3	$\frac{6}{5} = 1 + \frac{\hspace{0.5cm}}{5}$		25	$\frac{5}{2} = \frac{4}{2} + \frac{\hspace{0.5cm}}{2}$	
4	$\frac{6}{5} = 1 - \frac{\hspace{0.5cm}}{5}$		26	$\frac{5}{2} = 2 + \frac{\hspace{0.5cm}}{2}$	
5	$4 = 3 + \underline{\hspace{1cm}}$		27	$\frac{5}{2} = 2 - \frac{\hspace{0.5cm}}{2}$	
6	$\frac{4}{3} = \frac{3}{3} + \frac{\hspace{0.5cm}}{3}$		28	$\frac{\hspace{0.5cm}}{5} = \frac{10}{5} + \frac{1}{5}$	
7	$\frac{4}{3} = 1 + \frac{\hspace{0.5cm}}{3}$		29	$\frac{\hspace{0.5cm}}{5} = 2 + \frac{1}{5}$	
8	$\frac{4}{3} = 1 - \frac{\hspace{0.5cm}}{3}$		30	$\frac{11}{5} = \underline{\hspace{0.5cm}} - \frac{1}{5}$	
9	$5 = \underline{\hspace{1cm}} + 1$		31	$\frac{13}{5} = \underline{\hspace{0.5cm}} - \frac{3}{5}$	
10	$\frac{5}{4} = \underline{\hspace{0.5cm}} + \frac{1}{4}$		32	$\frac{5}{3} = \underline{\hspace{0.5cm}} + \frac{1}{3}$	
11	$\frac{5}{4} = 1 + \frac{\hspace{0.5cm}}{4}$		33	$\frac{5}{2} = \frac{4}{2} + \frac{\hspace{0.5cm}}{2}$	
12	$\frac{5}{4} = \underline{\hspace{0.5cm}} - \frac{1}{4}$		34	$\frac{5}{2} = \underline{\hspace{0.5cm}} + \frac{1}{2}$	
13	$8 = \underline{\hspace{1cm}} + 3$		35	$\frac{5}{2} = \underline{\hspace{0.5cm}} - \frac{1}{2}$	
14	$\frac{8}{5} = \underline{\hspace{0.5cm}} + \frac{3}{5}$		36	$\frac{12}{5} = \frac{10}{5} + \frac{\hspace{0.5cm}}{5}$	
15	$\frac{8}{5} = 1 + \frac{\hspace{0.5cm}}{5}$		37	$\frac{12}{5} = \underline{\hspace{0.5cm}} + \frac{2}{5}$	
16	$\frac{8}{5} = 1 - \frac{\hspace{0.5cm}}{5}$		38	$\frac{12}{5} = 2 - \frac{\hspace{0.5cm}}{5}$	
17	$\frac{9}{5} = 1 - \frac{\hspace{0.5cm}}{5}$		39	$\frac{14}{5} = 2 - \frac{\hspace{0.5cm}}{5}$	
18	$\frac{6}{5} = 1 - \frac{\hspace{0.5cm}}{5}$		40	$\frac{9}{8} = 1 + \frac{\hspace{0.5cm}}{8}$	
19	$\frac{7}{5} = 1 - \frac{\hspace{0.5cm}}{5}$		41	$\frac{11}{8} = 1 + \frac{\hspace{0.5cm}}{8}$	
20	$\frac{6}{3} = \underline{\hspace{1cm}}$		42	$\frac{19}{12} = \underline{\hspace{0.5cm}} + \frac{7}{12}$	
21	$\underline{\hspace{0.5cm}} = \frac{6}{3} + \frac{1}{3}$		43	$\frac{15}{8} = 1 + \frac{\hspace{0.5cm}}{8}$	
22	$\underline{\hspace{0.5cm}} = 2 + \frac{1}{3}$		44	$\frac{19}{12} = 1 + \frac{\hspace{0.5cm}}{12}$	

SPRINT #9

A

Correct _____

Write a fraction or decimal.

1	$\frac{2}{10} =$	.	23	1 =	/10
2	$\frac{3}{10} =$	.	24	2 =	/10
3	$\frac{4}{10} =$	.	25	5 =	/10
4	$\frac{8}{10} =$	.	26	4 =	/10
5	$\frac{6}{10} =$	.	27	4.1 =	/10
6	0.1 =	/10	28	4.2 =	/10
7	0.2 =	/10	29	4.6 =	/10
8	0.3 =	/10	30	2.6 =	/10
9	0.7 =	/10	31	3.6 =	/10
10	0.5 =	/10	32	3.4 =	/10
11	$\frac{5}{10} =$	.	33	2.3 =	/10
12	0.8 =	/10	34	$4\frac{3}{10} =$	.
13	$\frac{7}{10} =$	.	35	$\frac{20}{10} =$	.
14	0.4 =	/10	36	1.8 =	/10
15	$\frac{9}{10} =$	.	37	$3\frac{4}{10} =$	.
16	$\frac{10}{10} =$	.	38	$\frac{50}{10} =$	.
17	$\frac{11}{10} =$	.	39	4.7 =	/10
18	$\frac{12}{10} =$	.	40	$2\frac{8}{10} =$	.
19	$\frac{15}{10} =$	.	41	$\frac{30}{10} =$	.
20	$\frac{25}{10} =$	.	42	3.2 =	/10
21	$\frac{45}{10} =$	.	43	$\frac{20}{10} =$	.
22	$\frac{38}{10} =$	.	44	2.1 =	/10

B

Improvement _____

Correct _____

Write a fraction or decimal.

1	$\frac{1}{10} =$	.	23	1 =	/10
2	$\frac{2}{10} =$	.	24	2 =	/10
3	$\frac{3}{10} =$	.	25	4 =	/10
4	$\frac{7}{10} =$	.	26	3 =	/10
5	$\frac{5}{10} =$	.	27	3.1 =	/10
6	0.2 =	/10	28	3.2 =	/10
7	0.3 =	/10	29	3.6 =	/10
8	0.4 =	/10	30	1.6 =	/10
9	0.8 =	/10	31	2.6 =	/10
10	0.6 =	/10	32	4.2 =	/10
11	$\frac{4}{10} =$	.	33	2.5 =	/10
12	0.9 =	/10	34	$3\frac{4}{10} =$	.
13	$\frac{6}{10} =$	.	35	$\frac{50}{10} =$	.
14	0.5 =	/10	36	1.7 =	/10
15	$\frac{9}{10} =$	.	37	$4\frac{3}{10} =$	.
16	$\frac{10}{10} =$	.	38	$\frac{20}{10} =$	.
17	$\frac{11}{10} =$	.	39	4.6 =	/10
18	$\frac{12}{10} =$	.	40	$2\frac{4}{10} =$	.
19	$\frac{17}{10} =$	.	41	$\frac{40}{10} =$	.
20	$\frac{27}{10} =$	.	42	2.3 =	/10
21	$\frac{47}{10} =$	.	43	$\frac{30}{10} =$	.
22	$\frac{34}{10} =$.	44	4.1 =	/10

SPRINT #10**A**

Correct _____

Write a fraction or decimal.

1	$\frac{3}{10} =$	.	23	$2 + \frac{1}{10} + \frac{6}{100} =$	.
2	$\frac{3}{100} =$	.	24	$2 + 0.1 + 0.06 =$	.
3	$\frac{23}{100} =$	.	25	$3 + 0.1 + 0.06 =$	.
4	$1\frac{23}{100} =$	.	26	$3 + 0.1 + 0.04 =$	.
5	$4\frac{23}{100} =$	.	27	$3 + 0.5 + 0.04 =$	.
6	$0.07 =$	/	28	$2 + 0.3 + 0.08 =$	.
7	$1.07 =$	/	29	$2 + 0.08 =$	.
8	$0.7 =$	/	30	$1 + 0.3 =$	.
9	$1.7 =$	/	31	$10 + 0.3 =$	.
10	$1.74 =$	/	32	$1 + 0.4 + 0.06 =$	.
11	$\frac{4}{100} =$	.	33	$10 + 0.4 + 0.06 =$	.
12	$0.6 =$	/	34	$30 + 0.7 + 0.02 =$	.
13	$\frac{7}{100} =$	.	35	$2 + \frac{3}{10} + 0.05 =$	.
14	$0.02 =$	/	36	$4 + 0.5 + \frac{3}{100} =$	.
15	$\frac{9}{100} =$	.	37	$4 + \frac{3}{100} + 0.5 =$	.
16	$\frac{10}{100} =$	.	38	$0.5 + \frac{3}{100} + 4 =$	.
17	$\frac{10}{100} + \frac{2}{100} =$	.	39	$20 + 0.8 + 0.01 =$	.
18	$\frac{1}{10} + \frac{2}{100} =$	.	40	$4 + \frac{9}{100} + \frac{2}{10} =$	.
19	$\frac{1}{10} + \frac{3}{100} =$	.	41	$0.04 + 2 + 0.7 =$	/
20	$\frac{1}{10} + \frac{4}{100} =$	.	42	$\frac{6}{10} + 8 + \frac{2}{100} =$	.
21	$\frac{1}{10} + \frac{9}{100} =$	.	43	$\frac{5}{100} + 8 + 0.9 =$	/
22	$3 + \frac{1}{10} + \frac{9}{100} =$	.	44	$0.9 + 10 + \frac{4}{100} =$	.

B

Improvement _____ # Correct _____

Write a fraction or decimal.

1	$\frac{1}{10} =$	.	23	$2 + \frac{1}{10} + \frac{4}{100} =$	.
2	$\frac{2}{10} =$	.	24	$2 + 0.1 + 0.04 =$	.
3	$\frac{3}{10} =$	.	25	$3 + 0.1 + 0.04 =$	.
4	$\frac{7}{10} =$	.	26	$3 + 0.1 + 0.06 =$	.
5	$\frac{5}{10} =$	.	27	$3 + 0.5 + 0.06 =$	.
6	$0.2 =$	/	28	$2 + 0.4 + 0.09 =$	.
7	$0.3 =$	/	29	$2 + 0.06 =$	.
8	$0.4 =$	/	30	$1 + 0.5 =$	.
9	$0.8 =$	/	31	$10 + 0.5 =$	.
10	$0.6 =$	/	32	$1 + 0.2 + 0.04 =$	.
11	$\frac{4}{10} =$	.	33	$10 + 0.2 + 0.04 =$	.
12	$0.9 =$	/	34	$30 + 0.9 + 0.06 =$	.
13	$\frac{6}{10} =$	.	35	$2 + \frac{5}{10} + 0.07 =$	.
14	$0.5 =$	/	36	$4 + 0.7 + \frac{5}{100} =$	.
15	$\frac{9}{10} =$	.	37	$4 + \frac{5}{100} + 0.7 =$	.
16	$\frac{10}{10} =$	.	38	$0.7 + \frac{5}{100} + 4 =$	.
17	$\frac{11}{10} =$	.	39	$20 + 0.6 + 0.01 =$	.
18	$\frac{12}{10} =$	.	40	$6 + \frac{7}{100} + \frac{4}{10} =$	.
19	$\frac{17}{10} =$	.	41	$0.06 + 2 + 0.9 =$	/
20	$\frac{27}{10} =$	.	42	$\frac{8}{10} + 6 + \frac{4}{100} =$	.
21	$\frac{47}{10} =$	.	43	$\frac{3}{100} + 8 + 0.7 =$	/
22	$\frac{34}{10} =$	.	44	$0.7 + 10 + \frac{6}{100} =$	.

VOCABULARY GAMES

Bingo:

1. 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.
2. Players place the filled-in math bingo template in their mini- boards.
3. One person is the caller and reads the definition on a vocabulary card.
4. Players cross off (or cover) the term that matches the definition.
5. *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.
6. 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.

Math Jeopardy:

Structure: Teams or partnerships. Callers should prepare the game in advance.

1. The definitions are sorted into labeled columns by a caller: units, lines and angles, the four operations, and geometric shapes.
2. The first term directly below the heading has a value of \$100, the next \$200, and so on. The caller should make an effort to order the questions from easiest to hardest.
3. Player 1 chooses a column and a dollar value, for example, "I choose geometry terms for \$100." The caller reads, "The answer is..."
4. The players write the matching question, for example, "What is a quadrilateral?"
5. The first person to correctly state the question wins the dollar value for that card.
6. Play continues until all cards are used.
7. The player with the most dollar value wins.

Concentration:

Structure: Teams or partnerships.

1. Create an array of all the cards face down.
2. Players take turns flipping over pairs of cards to find a match. A match is a vocabulary term and its definition. Cards keep their precise location in the array if not matched. Remaining cards are not reconfigured into a new array.
3. After all cards are matched, the player with the most pairs is the winner.

Math Pictionary:

Structure: Teams or partnerships.

1. A timer is set for 1 minute.
2. A vocabulary term is chosen from a bag by a player from Team 1, who draws an example as quickly as possible.
3. The player's teammate(s) try to guess the vocabulary term. When the term is guessed, a new term is chosen by the same player. The process is repeated as many times as possible within the minute. Terms not guessed when the timer sounds go back in the bag.
4. A player from Team 2 repeats the process.
5. Teams count the number of words guessed. The team with the most words is the winner.

		Math BINGO!		

		Math BINGO!		

A metric unit of measure equivalent to 1,000 grams.	A whole number greater than 1 whose only factors are 1 and itself.	An angle measuring less than 90 degrees.	Lines that intersect at 90-degree angles.
A whole number plus a fraction.	An angle that turns through $\frac{1}{360}$ of a circle.	The bottom number in a fraction that tells the number of equal parts in the whole.	A customary unit of measurement for liquid volume equivalent to 4 quarts.
A customary unit of measurement for liquid volume equivalent to 2 pints.	The answer to a multiplication problem.	The answer to a division problem.	A line through a figure such that when the figure is folded along an imaginary line, two halves are created that match up exactly.
Two lines in a plane that never intersect.	A triangle with at least two equal sides.	A whole number having three or more distinct factors.	A closed figure with 4 straight sides and 4 angles.
An angle measuring 90 degrees.	An angle with a measure greater than 90 degrees but less than 180 degrees.	Lines that contain at least 1 point in common.	A tool used to measure and draw angles.
The top number in a fraction that tells how many parts of the whole are selected.	A triangle that contains one 90-degree angle.	This special angle measures 180 degrees.	A closed figure with 3 straight sides of equal length and 3 equal angles.

Kilogram	Prime Number	Acute Angle	Perpendicular Lines
Mixed Number	One-Degree Angle	Denominator	Gallon
Quart	Product	Quotient and Remainder	Line of Symmetry
Parallel Lines	Isosceles Triangle	Composite Number	Quadrilateral
Right Angle	Obtuse Angle	Intersecting Lines	Protractor
Numerator	Right Triangle	Straight Angle	Equilateral Triangle

Math Vocabulary Definitions

Acute Angle: Any angle measuring less than 90 degrees.

Composite Number: A whole number having three or more distinct factors.

Denominator: The bottom number in a fraction that tells the number of equal parts in the whole.

Equilateral Triangle: A closed figure with 3 straight sides of equal length and 3 equal angles.

Gallon: A customary unit of measurement for liquid volume equivalent to 4 quarts.

Intersecting Lines: Lines that contain at least 1 point in common.

Isosceles Triangle: A triangle with at least two equal sides.

Kilogram: A metric unit of measure equivalent to 1,000 grams.

Line of Symmetry: A line through a figure such that when the figure is folded along an imaginary line, two halves are created that match up exactly.

Mixed Number: A whole number plus a fraction.

Numerator: The top number in a fraction that tells how many parts of the whole are selected.

Obtuse Angle: An angle with a measure greater than 90 degrees but less than 180 degrees.

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

Parallel Lines: Two lines in a plane that never intersect.

Perpendicular Lines: Lines that intersect at 90-degree angles.

Prime Number: A whole number greater than 1 whose only factors are 1 and itself.

Product: The answer to a multiplication problem.

Protractor: A tool used to measure and draw angles.

Quadrilateral: A closed figure with 4 straight sides and 4 angles.

Quart: A customary unit of measurement for liquid volume equivalent to 2 pints.

Quotient and Remainder: The answer to a division problem.

Right Angle: An angle measuring 90 degrees.

Right Triangle: A triangle that contains one 90-degree angle.

Straight Angle: This special angle measures 180 degrees.