

Rising 4th Grade Summer
Math Activity Calendar

Choose any three activities:

Choose the Correct Measurement Unit Objective: guess which measurement unit you would use to measure a specific item. Height: Feet or inches? Length: Inches, feet, yards, or miles? Weight: Ounces, pounds, or tons? Volume: Cups, pints, quarts, or gallons?	Multiplication Battle Objective: to out multiply the other players. A fun, flashcard game trying to solve more multiplication problems than your opponent(s). Take on your grown up(s) and/or sibling(s) and challenge one another's multiplication skills.	Division Fact Family Trees Objective: to practice division with a fact family sheet.
Money Money Money - MON-NAY! Objective: answer the questions about coins. Added bonus: ask a grown up if you can borrow some of their coins to actually practice with real money. Don't forget to wash your hands after touching real money!	Menu Match-ups Objective: Use the menu to determine what combinations can be purchased for the given amounts of money.	Baking with Math Using the attached recipe (or any recipe you want!) circle all the fractions, whole numbers, measurement units, and temperatures. Then try following the directions to make some watermelon cookies!

Choose the Correct Measurement Unit

Choose the correct measurement unit to measure the following aspects of various animals. If you are unsure, ask a grown up to help you look up photos of these animals!

1. The length of a toucan's beak. _____
2. The weight of a silverback gorilla. _____
3. The length of a blue whale. _____
4. The volume of a pelican's beak. _____
5. The height of a giraffe. _____
6. The weight of a hummingbird. _____
7. The length a sloth travels in an hour. _____
8. The length a cheetah travels in an hour. _____
9. The volume of a humpback whale's mouth. _____
10. The height of a prairie dog. _____

Multiplication Battle

Print out the multiplication battle cards (the thicker the paper, the better - construction paper works great). Cut out the cards and shuffle them, then divide them equally amongst the players. Going in a counterclockwise circle, starting with the person to the left of the dealer, each player reads the problem in black, but not the answer in red off of the top card from their pile. The other players call out their answers trying to guess the number in red. The first player to call out the right answer wins and gets to add that card to their “win” pile. Once all the cards have been solved, the player with the most cards in their win pile wins the game.

FLASH CARDS:

$0 \times 0 = 0$	$1 \times 0 = 0$	$2 \times 0 = 0$	$3 \times 0 = 0$
$0 \times 1 = 0$	$1 \times 1 = 1$	$2 \times 1 = 2$	$3 \times 1 = 3$
$0 \times 2 = 0$	$1 \times 2 = 2$	$2 \times 2 = 4$	$3 \times 2 = 6$
$0 \times 3 = 0$	$1 \times 3 = 3$	$2 \times 3 = 6$	$3 \times 3 = 9$
$0 \times 4 = 0$	$1 \times 4 = 4$	$2 \times 4 = 8$	$3 \times 4 = 12$
$0 \times 5 = 0$	$1 \times 5 = 5$	$2 \times 5 = 10$	$3 \times 5 = 15$
$0 \times 6 = 0$	$1 \times 6 = 6$	$2 \times 6 = 12$	$3 \times 6 = 18$
$0 \times 7 = 0$	$1 \times 7 = 7$	$2 \times 7 = 14$	$3 \times 7 = 21$
$0 \times 8 = 0$	$1 \times 8 = 8$	$2 \times 8 = 16$	$3 \times 8 = 24$
$0 \times 9 = 0$	$1 \times 9 = 9$	$2 \times 9 = 18$	$3 \times 9 = 27$
$0 \times 10 = 0$	$1 \times 10 = 10$	$2 \times 10 = 20$	$3 \times 10 = 30$

$4 \times 0 = 0$	$5 \times 0 = 0$	$6 \times 0 = 0$	$7 \times 0 = 0$
$4 \times 1 = 4$	$5 \times 1 = 5$	$6 \times 1 = 6$	$7 \times 1 = 7$
$4 \times 2 = 8$	$5 \times 2 = 10$	$6 \times 2 = 12$	$7 \times 2 = 14$
$0 \times 3 = 0$	$5 \times 3 = 15$	$6 \times 3 = 18$	$7 \times 3 = 21$
$4 \times 4 = 16$	$5 \times 4 = 20$	$6 \times 4 = 24$	$7 \times 4 = 28$
$4 \times 5 = 20$	$5 \times 5 = 25$	$6 \times 5 = 30$	$7 \times 5 = 35$
$4 \times 6 = 24$	$5 \times 6 = 30$	$6 \times 6 = 36$	$7 \times 6 = 42$
$4 \times 7 = 28$	$5 \times 7 = 35$	$6 \times 7 = 42$	$7 \times 7 = 49$
$4 \times 8 = 32$	$5 \times 8 = 40$	$6 \times 8 = 48$	$7 \times 8 = 56$
$4 \times 9 = 36$	$5 \times 9 = 45$	$6 \times 9 = 54$	$7 \times 9 = 63$
$4 \times 10 = 40$	$5 \times 10 = 50$	$6 \times 10 = 60$	$7 \times 10 = 70$
$8 \times 0 = 0$	$9 \times 0 = 0$	$10 \times 0 = 0$	$0 \times 177 = 0$
$8 \times 1 = 8$	$9 \times 1 = 9$	$10 \times 1 = 10$	$1 \times 398 = 398$
$8 \times 2 = 16$	$9 \times 2 = 18$	$10 \times 2 = 20$	$2 \times 40 = 80$
$8 \times 3 = 24$	$9 \times 3 = 27$	$10 \times 3 = 30$	$3 \times 60 = 180$

$8 \times 4 = 32$	$9 \times 4 = 36$	$10 \times 4 = 40$	$4 \times 100 = 400$
$8 \times 5 = 40$	$9 \times 5 = 45$	$10 \times 5 = 50$	$5 \times 60 = 300$
$8 \times 6 = 48$	$9 \times 6 = 54$	$10 \times 6 = 60$	$6 \times 200 = 1200$
$8 \times 7 = 56$	$9 \times 7 = 63$	$10 \times 7 = 70$	$7 \times 90 = 630$
$8 \times 8 = 64$	$9 \times 8 = 72$	$10 \times 8 = 80$	$8 \times 400 = 3200$
$8 \times 9 = 72$	$9 \times 9 = 81$	$10 \times 9 = 90$	$9 \times 1000 = 9000$
$8 \times 10 = 80$	$9 \times 10 = 90$	$10 \times 10 = 100$	$10 \times 54 = 540$

Division Fact Family Tree

All the Numbers went out to dinner and they all got mixed together. Can you help us separate the numbers into fact families? Finish the fact families:

1. $13 \div 1 = \underline{\hspace{2cm}}$
 $13 \div 13 = \underline{\hspace{2cm}}$
 $13 \times 1 = \underline{\hspace{2cm}}$
 $1 \times 13 = \underline{\hspace{2cm}}$

2. $20 \div 2 = \underline{\hspace{2cm}}$
 $20 \div 10 = \underline{\hspace{2cm}}$
 $10 \times 2 = \underline{\hspace{2cm}}$
 $2 \times 10 = \underline{\hspace{2cm}}$

3. $18 \div 3 = \underline{\hspace{2cm}}$
 $18 \div 6 = \underline{\hspace{2cm}}$
 $6 \times 3 = \underline{\hspace{2cm}}$
 $3 \times 6 = \underline{\hspace{2cm}}$

4. $36 \div 4 = \underline{\hspace{2cm}}$
 $36 \div 9 = \underline{\hspace{2cm}}$
 $9 \times 4 = \underline{\hspace{2cm}}$
 $4 \times 9 = \underline{\hspace{2cm}}$

5. $35 \div 5 = \underline{\hspace{2cm}}$
 $35 \div 7 = \underline{\hspace{2cm}}$
 $7 \times 5 = \underline{\hspace{2cm}}$
 $5 \times 7 = \underline{\hspace{2cm}}$

6. $56 \div 8 = \underline{\hspace{2cm}}$
 $56 \div 7 = \underline{\hspace{2cm}}$
 $7 \times 8 = \underline{\hspace{2cm}}$
 $8 \times 7 = \underline{\hspace{2cm}}$

7. $21 \div 3 =$ _____
 $21 \div 7 =$ _____
 $7 \times 3 =$ _____
 $3 \times 7 =$ _____

8. $32 \div 4 =$ _____
 $32 \div 8 =$ _____
 $8 \times 4 =$ _____
 $4 \times 8 =$ _____

9. $42 \div 7 =$ _____
 $42 \div 6 =$ _____
 $6 \times 7 =$ _____
 $7 \times 6 =$ _____

10. $40 \div 10 =$ _____
 $40 \div 4 =$ _____
 $4 \times 10 =$ _____
 $10 \times 4 =$ _____

Money, Money, Money - MON-NAY!

1. Lay out your money from least to greatest worth.
2. What is each coin worth?
The penny _____
The nickel _____
The dime _____
The quarter _____
3. How many pennies equal a nickel? _____
A dime? _____
4. How many nickels equal a dime? _____
A quarter? _____
A dollar? _____
5. How many dimes equal \$1? _____
\$2? _____
\$5? _____
6. How many quarters equal \$1? _____
\$2? _____
\$5? _____
\$10? _____
7. What coins can I use to make \$0.25? _____

8. What coins can I use to make \$2.50? _____

9. If Clover's bone cost \$0.76 and she gives the cashier two quarters, two dimes, two nickels, and two pennies - did she give enough money? _____
10. What would Clover's change be? _____

Menu Mash-ups:

MENU:

Breadsticks: \$3.00

Mozzarella Sticks: \$4.50

Side Salad: \$5.25

Cheese Pizza: \$15.50

Substitute Vegan Cheese: + \$2.00

Additional Pizza Toppings: \$0.75 per topping

- Pepperoni
- Ham
- Peppers
- Onion
- Mushrooms
- Mozzarella Cheese
- Pineapple

Water: \$1.15

Soda: \$2.45

QUESTIONS:

1. What would you buy if you had \$20 to spend? _____

2. What would you buy if you had \$50 to spend? _____

3. How much would a meal of mozzarella sticks, a side salad, a pepperoni and mushroom pizza, and a soda cost? _____
4. If I paid for my meal (see above) with a \$100 bill, how much change should I receive back? _____
5. How much would a pizza with all the toppings cost? _____

Baking with Fractions Gingerbread People Recipe:

Circle all the whole numbers in Green.

Circle all the fractions in Red.

Circle all the measurement units in Purple.

Circle all the temperatures in Blue.

INGREDIENTS:

- $\frac{3}{4}$ cup butter, softened
- $\frac{3}{4}$ cup sugar
- 1 large egg, room temperature
- $\frac{1}{2}$ teaspoon vanilla extract
- 2 cups all-purpose flour
- $\frac{1}{4}$ teaspoon baking powder
- $\frac{1}{8}$ teaspoon salt
- Red food coloring
- Green food coloring.
- $\frac{1}{3}$ cup miniature semisweet chocolate chips or raisins, chopped

DIRECTIONS:

1. In a large bowl, use an electric mixer cream butter and sugar until light and fluffy (you want it smooth like natural peanut butter).
2. Add in the egg and vanilla extract. Beat until well combined. Scrape down the sides and bottom of the bowl, collecting mixture in the middle.
3. In another bowl, mix together the flour, baking powder and salt. A whisk works best, but if you don't have one, a fork works great.
4. Gradually add the dry mixture into the creamed mixture.
5. Separate out $\frac{2}{3}$ cup of dough - pro tip: use a clean measuring cup and stuff it full, then use a butter knife to make an even top. Roll the dough into a 3- $\frac{1}{2}$ in.-long log. Wrap it in plastic wrap.
6. Separate out $\frac{1}{3}$ cup of dough - pro tip: use a clean measuring cup and stuff it full, then use a butter knife to make an even top. Tint this dough green, then roll it into a 3- $\frac{1}{2}$ in.-long log. Wrap it in plastic wrap, just like you did the plain dough.
7. Tint remaining dough red; shape into a 3- $\frac{1}{2}$ -in.-long roll and wrap.
8. Refrigerate all the dough for 2 hours or until firm. Be sure your plastic wrap is tight so that no smells or flavors from the refrigerator get into the dough. You can always put the wrapped dough logs into a container in the refrigerator to protect the flavor.
9. Lightly flour a clean, dry space on the counter or table. Once firm, use a rolling pin to roll the plain dough into an 8- $\frac{1}{2}$ x3- $\frac{1}{2}$ -in. rectangle. Unwrap and place the red dough on a short end of the plain dough; then roll the plain dough around the red dough, like a blanket.
10. Roll green dough into a 10x3- $\frac{1}{2}$ -in. rectangle. Place red and plain roll on a short end of the green dough and roll up, just like you did with the plain and red dough. Wrap and refrigerate overnight.

11. Preheat oven to 350°F. Unwrap and cut dough into 3/16-in. slices (just less than 1/4 in.). Place 2 in. apart on ungreased baking sheets. Lightly press chocolate chips, if desired, to resemble watermelon seeds.
12. Bake 9-11 minutes or until firm. Immediately cut cookies in half. Remove to wire racks and allow at least 10 minutes to cool.
13. Enjoy and share!

Rising 5th Grade Summer *Math Activity Calendar*

Choose any three activities:

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Money Money Money - MON-NAY! Objective: answer the questions about coins. Added bonus: ask a grown up if you can borrow some of their coins to actually practice with real money. Don't forget to wash your hands after touching real money!	Menu Match-ups Objective: Use the menu to determine what combinations can be purchased for the given amounts of money.	Baking with Math Using the attached recipe (or any recipe you want!) circle all the fractions, whole numbers, measurement units, and temperatures. Then try following the directions to make some watermelon cookies!