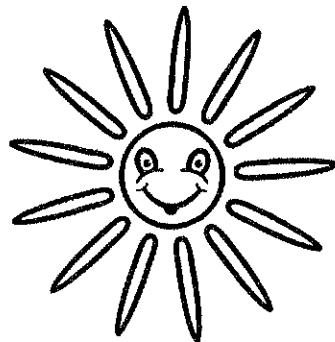


Grade 8



Summer Math 2024

Name: _____

G8 Math Menu Choice Board

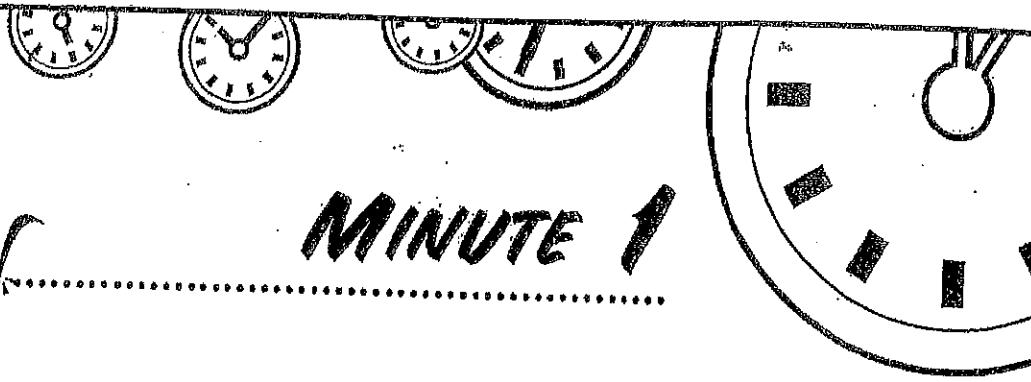
Part 1: Choose activities from the project menu that equal \$10 or more. Place an X in each box to show which activities you completed. Save your work for each item you complete, and take pictures when applicable. Keep everything together in a folder to submit when you return to school in the fall.

Appetizer \$2	Entrees \$4	Desserts \$3
<u>Spinner for Data:</u> Use a spinner that includes at least eight different numbers. Spin the spinner 10 times, record the number you get each time. Then find the mean , median , mode , and range of the number set.	<u>Elevation Project</u> Pretend you love geology! Choose 15 countries around the world with the lowest land points . Calculate the difference in land points with the country with the lowest land points to the country with the highest land points. Create a visual to share when we return to school in the fall (Google Slide presentation or poster).	<u>Electoral College</u> Go online and find the number of electoral votes for each state. Create a dot plot using the information you collected then identify the median , mode , and range of the data.
		<u>Picture Perfect</u> You want to make a photo collage. The picture you have is 5 inches by 10 inches. You are going to double , triple , and half the picture. Name the dimensions for each new dimension. Make sure to include your work. Then solve the relationship below.
	<u>Origami Fun</u> Create a Ninja Transforming Star. 1. Watch the video and follow the directions on how to create the Transforming Ninja Star : https://www.youtube.com/watch?v=n01fsCDWAUc 2. Once the star is completed, write a paragraph about how origami relates to math . Remember to use math terms.	<u>Let's Play Bingo</u> Create a bingo game where players have to add or subtract decimals. You must create one 5 x 5 bingo card and 25 question cards that include the answers.

<p><u>Compare Websites</u></p> <p>Play two adding and subtracting integers online games. Click this link for the Math Playground game https://www.mathplayground.com/galaxyplusintegers.html and then click this link for the Math Game activity https://www.mathgames.com/play/mathmissile.html?quickplay=526a3cffd99f9800710000eb.</p> <p>After playing both games, determine which you think is better and why. Record your response either with a recorded video response or writing it down in your math notebook.</p>	<p><u>Create a Video</u></p> <p>Create a video to teach other students how to find the volume and surface area of a triangular prism. Make sure to include visuals of a triangular prism and formulas.</p> <p><u>Temperature Table</u></p> <p>Create a table to show the all-time high and low temperatures in Fahrenheit of 10 cities in the United States(your choice) Next, calculate the range in temperature for each city. Finally identify which city has the smallest temperature difference and which city has the largest temperature difference.</p> <p><u>Coordinate Plane</u></p> <p>Create a star using the following points: (1, 1), (3, 6), (5, 1) ('1, 4), (5, 4), (1, 1)</p> <p>After you draw the star, reflect it over the y-axis and then reflect it over the x-axis.</p> <p><u>Carnival Rides Sign</u></p> <p>There are fifteen rides at the local carnival. Each ride has a different height requirement based on the danger of the ride. Write fifteen inequalities to represent which rides (name the ride) kids can go on for a sign that will be posted at the front of the carnival. Under each inequality, graph it on a number line.</p> <p>Example: Ferris wheel: $x \geq 4\text{ft}$</p> 
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Part 2: Math Minute
Complete one Math Minute worksheet per week. Time yourself to see how long it takes to complete a Math activity in the chart below.

Minute	Date	Time
Example	June 13, 2022	1 minute 10 sec
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		



MINUTE 1

NAME _____

1. $6 \times 3 =$

2. How many ears do eight dogs have in all? _____

3. If $n + 2 = 7$, then $n =$

4. There were eight bugs on the ground. Now there are six.
How many flew away? _____

5. $2 \times 3 \times 2 =$

6. $4 \times 6 + \underline{\quad} = 31$

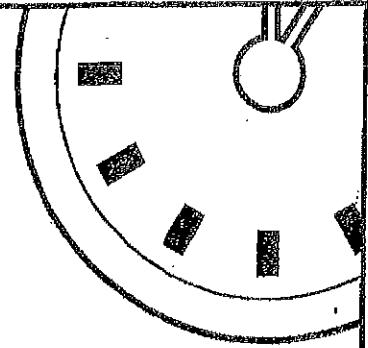
7. 3, 6, 9, 12, _____, _____, _____

8. Seven bicycles have _____ wheels in all.

Use $<$, $>$, or $=$ to complete questions 9 and 10.

9. 3 weeks _____ 20 days

10. 1 cm _____ 1 in.



MINUTE 2

NAME _____

1. $3 \cdot 5 =$

2. Four dollars equal _____ pennies.

3. $2 + 5 \cdot 2 =$

4. $5 + 8 - 3 =$

5. $\frac{6}{2} =$

6. 0, 4, 8, 12, _____, _____

7. $0 \times 5,132 =$

8. $2 \overline{) 32}$

9. The product of four and three is _____.

10. The sum of five and four is _____.

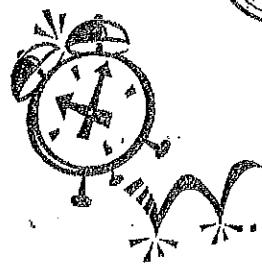


MINUTE 3

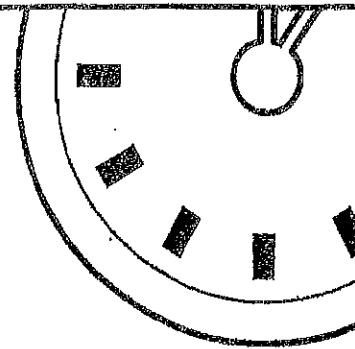
NAME _____

1. The product of 4 and 6 is _____.
2. $2,463 \times 0 =$
3. 1, 10, 2, 9, 3, _____, _____, _____.
4. $\frac{8}{4} =$
5. $4 \overline{) 48}$
6. $8 + 6 \div 3 =$
7. $3 + 4 \cdot 3 =$
8. How much does each apple cost? _____

9. $5 + (3 - 1) =$
10. The difference between 9 and 5 is _____.



MINUTE 4



NAME _____

1. $1, 5, 9, 13, \underline{\quad}, \underline{\quad}$

2. $10 - 4 \cdot 2 =$

3. $\frac{18}{3} =$

4. $84 \div 1 =$

5. Does Ellen spend more time
on homework or sports? _____



6. $4 \cdot 3 + 5 \cdot 1 =$

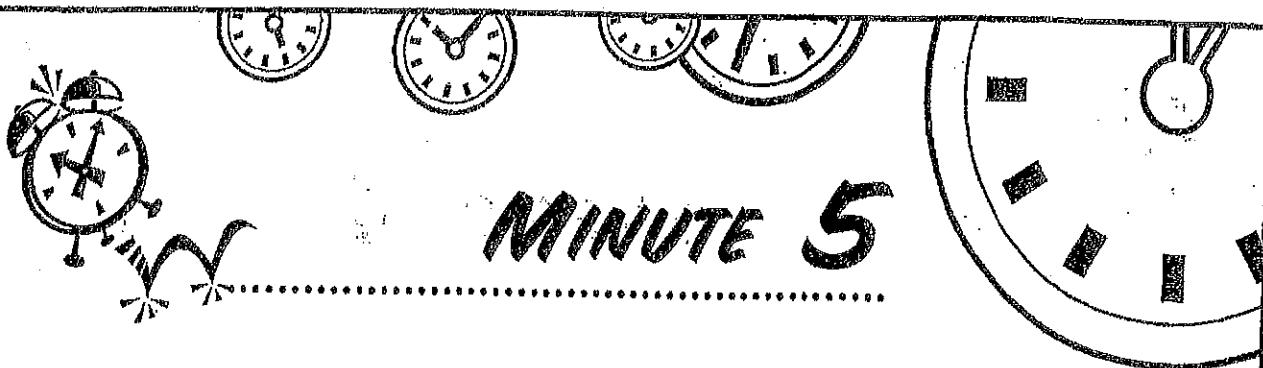
For questions 7-10, use $a = 2$, $b = 3$, and $c = 6$.

7. $a + b =$

8. $ac =$

9. $\frac{c}{a} =$

10. $2b =$



MINUTE 5

NAME _____

For questions 1–5, use $a = 8$, $b = 2$, and $c = \frac{1}{2}$.

1. $a + b =$

2. $b + c =$

3. $ab =$

4. $ca =$

5. $4a =$

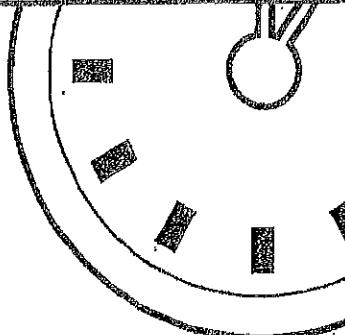
6. $\frac{14}{2} =$

7. $1, 2, 4, 8, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$

8. The sum of 8 and 7 is _____.

9. The difference between 9 and 3 is _____.

10. $10 - 3 \cdot 3 =$



MINUTE 6

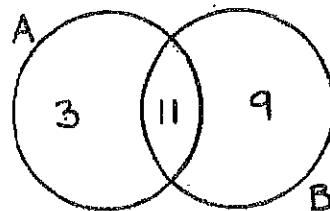
NAME _____

1. $4 \cdot 4 =$

2. $5^2 =$

3. $2 \cdot 2 \cdot 2 =$

4. Which number is in both A and B? _____



5. $10 - 5 \cdot 2 =$

6. $6^2 =$

7. $1 \cdot 1 \cdot 1 \cdot 1 =$

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

9. Circle the answer that is equal to $5 \cdot 5 \cdot 5$:
a. 5×3 b. 3×5 c. 5^3 d. 3^5

10. $3 + 5 =$



NAME _____

1. $8^2 =$

2. $4^2 - 6 =$

3. A trio and a quartet got together and played a song. How many musicians were there? _____

4. $2 + 3 \bullet 3 + 2 =$

5. $2 \overline{) 36}$

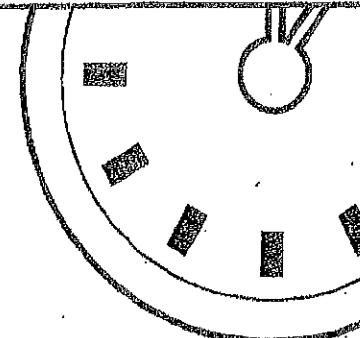
6. $10^2 =$

7. $\frac{1}{2} \bullet 10 =$

8. $3 \bullet 2 \bullet 1 =$

9. Circle the answer that is equal to 4^3 :
a. $4 \bullet 4 \bullet 4$ b. $4 \bullet 3$ c. $4 + 3$ d. $3 \bullet 3 \bullet 3 \bullet 3$

10. $\frac{4}{2} =$



MINUTE 8

NAME _____

1. $3^2 =$

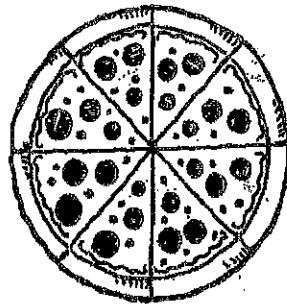
2. $\frac{18}{3} =$

3. Circle the answer that is equal to 5^3 :
a. 5×3 b. $3 + 3 + 3 + 3 + 3$ c. 3×5 d. $5 + 5 + 5$

4. If $8 + y = 15$, then $y =$

5. $15 + 3 \cdot 2 =$

6. Scott ate half of the pizza.
How many pieces did he eat? _____



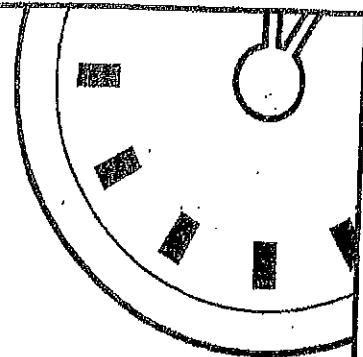
7. $\begin{array}{r} 35 \\ \times 35 \\ \hline \end{array}$

8. $\frac{1}{2} \times 12 =$

For questions 9 and 10, use $a = 5$ and $b = 2$.

9. $ab =$

10. $ba =$



MINUTE 9

NAME _____

1. $7^2 =$

2. If $4r = 24$, then $r =$

3. $\frac{15}{3} =$

4. $5(4 + 2) =$

5. $6 + 4 \cdot 2 =$

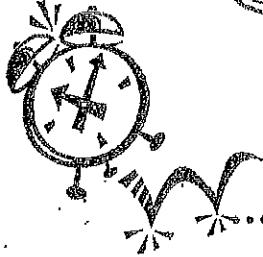
6. If $s - 8 = 9$, then $s =$

7.
$$\begin{array}{r} 45 \\ \times 45 \\ \hline \end{array}$$

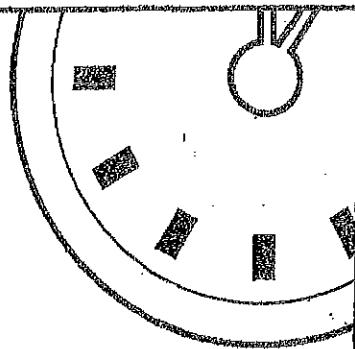
8. $2^3 =$

9. If there are fifty dimes in a roll of coins,
then it is equal to _____ dollars.

10. The product of eight and nine is _____.



MINUTE 10



NAME _____

1. $\frac{1}{2}(20) =$

2. $\frac{20}{4} =$

3. $(4 + 4)^2 =$

4. The quotient of $3 \overline{)27}$ is _____.

5. One half of fifty is _____.

6. 128, 64, 32, 16, _____, _____, _____

7. $256 \cdot 0 =$

For questions 8-10, use $a = 5$, $b = 4$, and $c = 2$.

8. $ac =$

9. $2a =$

10. $\frac{b}{c} =$