

New 6th Grade Summer Math

Name _____

Directions: Answer all problems in simplest form.

1. $4 \frac{7}{24} + 7 \frac{5}{6} =$ _____

2. $5 \frac{1}{3} + 3 \frac{1}{12} + 4 \frac{1}{6} =$ _____

3. $5 \frac{1}{2} \times 5 =$ _____

4. $7 \frac{5}{6} - 4 \frac{2}{5} =$ _____

5. $4 \frac{1}{4} \div 2 \frac{1}{8} =$ _____

6. $2 \frac{1}{3} \times 4 \frac{2}{3} =$ _____

7. $10 - 3 \frac{2}{8} =$ _____

8. $5 \div 6 \frac{1}{4} =$ _____

Compare. Write $<$, $>$, or $=$

1. $4 \frac{1}{4} + \frac{3}{4}$ _____ $3 \frac{1}{2} - \frac{1}{4}$

2. 3.41 _____ 5.678

3. $\frac{5}{8}$ _____ $\frac{2}{3}$

4. 50.45 _____ 4.234

5. 3L _____ 300mL

6. 3kg _____ 30,000g

Find the area or the volume.

1. 7.3 m long, 3.9 m wide

2. 6.4 m long, 5.2 m wide, 12 m in height

Answer each decimal question correctly.

1. $74.39 \div 16 =$ _____

2. $4.98 \times 51.4 =$ _____

3. $43.2 \div 6 =$ _____

4. $8.2 - 4.019 =$ _____

Math Reasoning

Please answer questions on the following sheets of paper labeled math reasoning.

1. Is $2\frac{1}{5}$ a reciprocal of $11/5$? Explain your answer.
2. In one hour, the 6th grade class made a paper chain that was 950 centimeters long. How many meters long was their paper chain?
3. Cameron and Logan decided to share a large hoagie. Cameron ate $3/6$ and Logan ate $2/6$ of the sandwich. How much of the sandwich did the boys eat together? Write your answer in a sentence.
4. Molly's mom packed her an apple for lunch. She shared $1/3$ of it with her friend Jenny. How much did Molly have left? Write your answer in a sentence.
5. If you had a fish tank and you wanted to fill it up with water, what unit of measurement would you use? Explain your answer.
6. Will I get the same answer for these 2 equations: $\frac{1}{5} \times 5$ and $\frac{1}{5} \div \frac{1}{5}$? Explain why or why not.
7. A water storage tank measures 30 ft by 10ft by 12 ft. How many cubic feet of water can be stored in the tank if it is completely filled?
8. What is the difference between length and mass? What metric unit do we use for each?
9. Identify the pattern by stating the rule...3, 9, 11, 33, 35, 105
10. For every 5 loads of laundry Matthew folds, he earns \$3. If Matthew folds 25 loads of laundry this month, how much money did he make? Explain your answer.

Math Reasoning

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.