

Name _____

Dickerson Math Summer Packet for Rising 6th Graders

Welcome to Dickerson Middle School! We feel that it would be very beneficial for your child to work on the standards/problems within the packet to help them be more successful when transitioning from elementary school to middle school. Please have your child complete this packet and show all of their work. Please also practice memorizing your multiplication tables through 12 over the summer...You will use these every day in Mathematics☺ Have a wonderful summer, and we can't wait to meet you!

Adding and Subtracting Decimals - Use the standard algorithm to solve these problems.

1. $8.98 + 6$

2. $12.45 - 5.8$

3. $36 - 17.954$

4. $199.7 - 145$

Multiplying Decimals - Use the standard algorithm to solve these problems.

1. 3.4 times 6.7
2. 5.85 times 7.8
3. 0.46 times 1.3
4. 0.705 times 0.5
5. 14.56 times 9.8

Dividing Decimals - Use the standard algorithm to solve these problems.

1. 0.6 divided by 0.3
2. 8.82 divided by 0.6
3. $14.35 \div 0.7$
4. $15.8 \div 16$

Improper Fractions to Mixed Numbers

1. $\frac{26}{4}$
2. $\frac{37}{3}$
3. $\frac{42}{18}$

Fractions to Decimals

1. Convert $\frac{9}{10}$ to a decimal.
2. What is $\frac{22}{40}$ as a decimal?
3. Write 0.67 as a fraction.
4. Write 2.75 as a fraction.

Number Sensibility

1. Which is greater, 0.5 or 0.4? Why?
2. Approximately, how much money is 0.625?
3. Which is greater, 1.756 or 1.785? Why?

Simplifying Fractions – Make sure that you put your fraction in simplest form.

1. $\frac{6}{9}$
2. $\frac{12}{28}$
3. $\frac{45}{80}$
4. $\frac{5}{1}$

Equivalent Fractions - To make a fraction equivalent, you can multiply or divide.

1. Create an equivalent fraction for $\frac{4}{5}$

2. Create an equivalent fraction for $\frac{8}{9}$

3. Create an equivalent fraction for $\frac{12}{16}$

Multiplying Fractions - Use the standard algorithm and make sure you simplify your fraction if possible.

1. $\frac{2}{5} \times \frac{7}{8}$

2. $\frac{10}{11} \times \frac{33}{5}$

3. $2\frac{1}{2} \times \frac{6}{7}$

4. $3\frac{5}{8} \times 4\frac{2}{3}$

Dividing Fractions - Use the standard algorithm and make sure you simplify your fraction if possible.

1. $4 \div \frac{1}{7}$

2. $\frac{3}{5} \div \frac{9}{11}$

3. $\frac{2}{3} \div \frac{10}{13}$

4. $\frac{5}{6} \div \frac{7}{12}$

5. $3\frac{1}{2} \div 2\frac{1}{8}$

Fraction Word Problems

1. Dr. Williams has ten pounds of coffee. She wants to repackage the coffee into equal bags of size $\frac{2}{3}$ pound. How many bags of coffee can she make?
2. How many $\frac{3}{8}$ cup servings are in a pitcher containing $6\frac{3}{4}$ cups of orange juice?
3. Six pizzas were shared equally among a group of Dickerson students. Each student got $\frac{1}{9}$ of a pizza. How many students were in the group?
4. Mrs. Austin buys $8\frac{1}{3}$ pounds of beef to make tacos for a party. She uses $\frac{5}{9}$ pound of beef for each taco. How many tacos can Mrs. Sussman make?
5. The quarterback threw the football $36\frac{1}{2}$ yards over 4 plays. How many yards did the quarterback average per play?

Decimal Word Problems

1. Mrs. Flint went shopping. She wanted to buy 3 pairs of pants that cost \$49.99 each. How much money did she spend in all?
2. Mrs. Albright went grocery shopping. Her total at the grocery store was \$85.98. If she paid with a \$100 bill, how much money did she receive in change?
3. An ounce of pine nuts costs \$1.40. If Mr. Kamhout buys 2.5 ounces of pine nuts, how much will he have to pay?
4. Mrs. Stone paid \$21.75 for a number of packets of rice crackers. Three packets of rice crackers cost \$1.45. How many packets of rice crackers did Mrs. Stone buy?
5. Mr. Blackman and Mrs. Smalley went to lunch at Panera Bread. Mr. Blackman's meal cost \$12.59, and Mrs. Smalley's meal cost \$11.75. How much money did they spend altogether?