

Name: \_\_\_\_\_

7th grade Math  
Summer Packet

I am so excited about the new school year and having you as a part of my 7th grade math class. This review packet should be completed before the first full day of school. You should show all of your work on the packet and staple any scratch work to the back.

Happy Summer! Love you all!

Mrs. Dubberley

Rounding Decimals

To round decimals, first find the place to which you want to round. Look at the digit to the right. If the digit is less than five, the place you are rounding to stays the same. If the digit is five or greater, round up.

Round each number to the given place value.

1.) 6.32; tenths

2.) 0.4721; hundredths

3.) 26.444 tenths

4.) 362.0846; thousandths

5.) 2.96; tenths

## Adding and Subtracting Decimals

To add and subtract decimals, first line up the decimals points. Then add or subtract as with whole numbers. No calculators

6.)  $\$27.06 + 7.06$

7.)  $1.034 + 0.08$

8.)  $68.7 + 8.41$

9.)  $42.6 + 21.919$

10.)  $9.14 - 2.075$

11.)  $712.53 - 6.44$

12.)  $20.14 - 8.093$

13.)  $\$12.65 - 6.44$

14.)  $2.42 - 0.5$

## Multiplying Decimals

Multiply decimals just like you multiply whole numbers. The number of decimal places in the product is equal to the sum of the number of decimal places in the factors. No calculators

15.)  $0.8 \times 7$

16.)  $0.04 \times 0.3$

17.)  $12.2 \times 0.06$

18.)  $0.0015 \times 0.15$

## Dividing Decimals

To divide by a decimal. No calculators

19.)  $6.3 \div 0.9$

20.)  $0.54 \div 0.6$

21.)  $129 \div 0.3$

22.)  $0.192 \div 2.4$

## Adding and Subtracting Fractions

To add or subtract fractions, you must have common denominators. Rename the fractions with common denominators, and then add or subtract the numerators. Simplify your answer. I know you all love fractions by now :)

23.)  $5\frac{1}{2} + 3\frac{1}{4}$

24.)  $7\frac{5}{6} - 2\frac{2}{3}$

25.)  $12\frac{1}{3} - 8\frac{5}{9}$

26.)  $\frac{1}{9} + \frac{5}{6}$

27.)  $8 - 3\frac{2}{5}$

28.)  $6\frac{7}{10} + 5\frac{1}{4}$

29.)  $7\frac{7}{9} + 6\frac{7}{8}$

30.)  $\frac{7}{10} - \frac{2}{5}$

## Multiplying Fractions

To multiply fractions, convert any mixed numbers to an improper fraction. Then multiply the numerators. Then multiply the denominators. Simplify the product if possible. Surprise...more fractions :)

$$31.) \quad 10\frac{7}{9} \times 4\frac{1}{4}$$

$$32.) \quad 14 \times 2\frac{3}{7}$$

$$33.) \quad 3\frac{3}{4} \times 2\frac{4}{7}$$

$$34.) \quad \frac{7}{10} \times \frac{5}{7}$$

$$35.) \quad \frac{5}{8} \times \frac{1}{2}$$

## Dividing Fractions

To divide by a fraction, first convert any mixed numbers to improper fractions, then multiply by its reciprocal (copy/dot/flop or keep/change/flip). Simplify the quotient if possible. YAY, fractions!

$$36.) \quad 3\frac{4}{9} \div 2\frac{1}{3}$$

$$37.) \quad \frac{4}{5} \div \frac{1}{3}$$

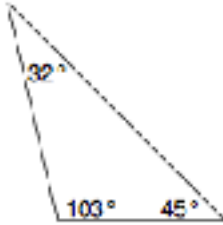
$$38.) \quad 6\frac{4}{5} \div 17$$

$$39.) \quad \frac{4}{7} \div \frac{8}{9}$$

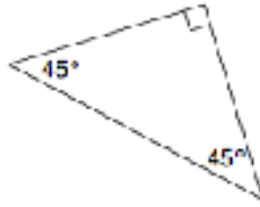
$$40.) \quad 2\frac{2}{3} \div 1\frac{1}{6}$$

Classify each triangle by its angles. Right, Obtuse, or Acute. We did not cover this but I'd like to see you try these.

41.)



42.)

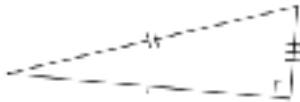


43.)



Classify each triangle by its sides. Isosceles, Scalene, or Equilateral. We did not cover this but I'd like to see you try these

44.)



45.)



Evaluate each expression using Order of Operations. Hint: PEMDAS

46.)  $4 \cdot 3 - 6$

47.)  $5 \cdot 4 + 3$

48.)  $2 \cdot 2 - 1$

49.)  $4 + 4 \div 2$

50.)  $(6 + 3) \cdot 3$

51.)  $12 \div (2 + 2)$

Solve the following equations.

52.)  $m + 7 = 25$

53.)  $m + 4 = 17$

54.)  $x + 6 = 18$

55.)  $15 - b = 12$

Fraction in simplest form	Decimal	Percent
		12.5%
		$8\frac{1}{4}\%$
	0.55	
$\frac{5}{8}$		

Complete the following table. You may use a calculator.