Incoming Seventh Grade Summer Packet

Each week this summer please complete one of the following review sheets. Please show as much work as you can for each problem. These review sheets will be collected on the first day of school and will be counted as a grade for the first quarter. Doing these review sheets will help you prepare for seventh grade math class.

Have a great summer!! See you soon !

Mrs. Benoit and Mr. Skeats

Name _____

Summer Review - Week #1

Please show any work you have done to complete each problem.

Write the place value of the underlined digit. Complete problems 1-8.

Example: 23.4̲56   4 tenths

1. 4.5672̲96   _____

2. 23.48̲6   _____

3. 3.0542̲3   _____

4. 8,4̲56.68   _____

5. 95̲3,023   _____

6. 8.972̲3   _____

Multiple Choice: Circle the correct answer.

7. What is the value of the underlined digit in the number 7.08̲78?

   a. 8 hundreds

   b. 8 thousandths

   c. 8 tenths

   d. 8 hundredths

8. Which number is in the ten-thousands place in the number

   2,130,629.4758?

   a. 6   b. 1   c. 3   d. 2

Rounding whole numbers and decimals.

    1. Round 42,398.567296

      a. to the nearest ten-thousandth

      _____

      b. to the nearest whole number

      _____

      c. to the nearest thousandth

      _____

    2. Round to the nearest cent.

      a. $423.486   _____

      b. $8,456.6888   _____

      c. $58.9999   _____

      d. $58.723   _____

Add, subtract, multiply or divide.

    1. $23 + 408 + 7 + 1,235 =$ _____

    2. $3,006 - 2,547 =$ _____

    3. $57,060 \div 12 =$ _____

    4. $1,042 \times 89 =$ _____

Summer Review - Week # 2

Please show any work you have done to complete each problem.

Add, subtract, multiply, or divide decimals and fractions. (Line up decimal places properly and annex zeros, if needed, before you add or subtract.)

1. $6.53 + .005 + 26.008$ _____

2. $4.59 - 0.399$ _____

3. $7.06 - 5.4$ _____

4. $28.43 + 0.002 + 1.9$ _____

5. 0.095×0.4 _____

6. 28.9×0.103 _____

7. $3.941 \div 0.07$ _____

8. $0.3784 \div 1.1$ _____

Multiply and divide by powers of ten.

To **multiply**, move the decimal places to the **right** as many places as there are zeros in the power of ten. To **divide**, move the decimal places to the **left** as many places as there are zeros in the power of ten.

1. $0.0345 \times 10,000$ _____
2. $12.5 \times 1,000$ _____
3. $13.9 \div 100$ _____
4. $30.035 \times 100,000$ _____
5. $0.0921 \div 10$ _____
6. 9.745×100 _____
7. $846 \div 10,000$ _____
8. $437 \times 1,000$ _____
9. $8.0345 \times 10,000$ _____
10. $12.345 \div 100,000$ _____
11. $0.0003 \times 100,000$ _____
12. $1.0895 \div 10,000$ _____
13. $5.4 \times 10,000$ _____

Summer Review - Week # 3

Please show any work you have done to complete each problem.

Write each improper fraction as a mixed number. $\frac{21}{4}$

(handwritten: $5\frac{1}{4}$, #1 $\frac{21}{-20}$ $\frac{1}{1}$)

1. $\frac{51}{4}$ _____   2. $\frac{85}{6}$ _____   3. $\frac{141}{8}$ _____

Write each mixed number as an improper fraction. $2\frac{1}{2} \rightarrow 2\times2+1=5 \rightarrow \frac{5}{2}$

1. $7\frac{2}{5}$ _____   2. $21\frac{1}{10}$ _____   3. $3\frac{4}{7}$ _____

Compare using =, <, or >. Hint: get a common denominator.

1. $\frac{7}{9}$ ___ $\frac{5}{7}$ 2. $\frac{8}{13}$ ___ $\frac{3}{4}$ 3. $\frac{5}{15}$ ___ $\frac{8}{20}$ 4. $\frac{2}{3}$ ___ $\frac{8}{12}$

Add fractions and mixed numbers. Remember to simplify your answer by reducing to lowest terms or writing as a mixed number.

1. $\frac{7}{9} + \frac{5}{9} =$ _____   6. $\frac{8}{9} + \frac{5}{18} =$ _____

2. $\frac{4}{7} + \frac{1}{3} =$ _____   7. $\frac{11}{15} + \frac{13}{25} =$ _____

3. $20\frac{3}{8} + 14\frac{1}{2} =$ _____   8. $6\frac{1}{4} + 1\frac{5}{6} =$ _____

4. $18\frac{1}{7} + 12\frac{3}{7} =$ _____   9. $2\frac{1}{10} + 1\frac{4}{5} =$ _____

5. $\frac{7}{20} + \frac{5}{12} =$ _____   10. $\frac{1}{4} + \frac{1}{15} =$ _____

Subtract fractions and mixed numbers. Remember to simplify your answer by reducing to lowest terms or writing as a mixed number.

1. $\dfrac{7}{9} - \dfrac{5}{9} =$ _____

2. $\dfrac{4}{7} - \dfrac{1}{3} =$ _____

3. $20\dfrac{3}{8} - 14\dfrac{1}{2} =$ _____

4. $18\dfrac{1}{7} - 12\dfrac{3}{7} =$ _____

5. $\dfrac{9}{20} - \dfrac{5}{12} =$ _____

6. $\dfrac{8}{9} - \dfrac{5}{18} =$ _____

7. $\dfrac{11}{15} - \dfrac{9}{25} =$ _____

8. $6\dfrac{1}{4} - 1\dfrac{5}{6} =$ _____

9. $2\dfrac{1}{10} - 1\dfrac{4}{5} =$ _____

10. $\dfrac{1}{4} - \dfrac{1}{15} =$ _____

Multiply fractions and mixed numbers.

1. $\dfrac{7}{9} \times \dfrac{18}{49} =$ _____

2. $\dfrac{4}{7} \times \dfrac{1}{5} \times \dfrac{7}{16} =$ _____

3. $2\dfrac{5}{6} \times 4\dfrac{1}{2} =$ _____

4. $\dfrac{3}{10} \times 25 =$ _____

5. $\dfrac{7}{20} \times \dfrac{5}{12} =$ _____

6. $\dfrac{8}{9} \times \dfrac{5}{18} =$ _____

7. $\dfrac{3}{5} \times \dfrac{7}{12} \times \dfrac{25}{28} =$ _____

8. $2\dfrac{1}{4} \times 18 =$ _____

9. $2\dfrac{1}{10} \times 1\dfrac{4}{7} =$ _____

10. $\dfrac{1}{4} \times \dfrac{1}{15} =$ _____

Summer Review - Week # 4

Please show any work you have done to complete each problem.

Divide fractions and mixed numbers.

1. $\dfrac{5}{9} \div \dfrac{1}{3} =$ _____

2. $\dfrac{4}{7} \div \dfrac{8}{11} =$ _____

3. $4\dfrac{1}{6} \div 2\dfrac{2}{5} =$ _____

4. $\dfrac{3}{10} \div 25 =$ _____

5. $\dfrac{7}{20} \div \dfrac{3}{10} =$ _____

6. $\dfrac{8}{9} \div \dfrac{5}{18} =$ _____

7. $\dfrac{3}{5} \div \dfrac{12}{125} =$ _____

8. $2\dfrac{1}{4} \div 18 =$ _____

9. $2\dfrac{1}{10} \div 1\dfrac{1}{2} =$ _____

10. $3\dfrac{1}{4} \div \dfrac{13}{16} =$ _____

Write the fraction-decimal-percent equivalents.

Fraction	Decimal	Percent
½		
		25%
¾		
	.2	
2/5		
		60%
4/5		

Find the <u>area</u> of the following shapes:

1. Rectangle: _____ $A = lw$

    Length = 5 ft

    Width = 3 ft

2. Square: _____ $A = lw$

    Side = 20 ft

3. ~~Circle:~~ _____

    ~~Radius = 10 in.~~

4. Parallelogram: _____ $A = bh$

    Base = 6 ft

    Height = 4 ft

5. Triangle: _____ $A = \dfrac{bh}{2}$

    Base = 5 ft

    Height = 4 ft

6. ~~Circle:~~ _____

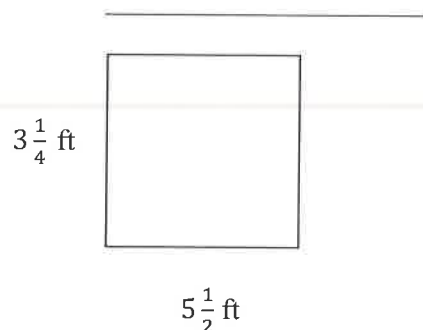   ~~Diameter = 8 in.~~ (Remember to find the radius first!!)

Summer Review - Week # 5

Please show any work you have done to complete each problem.

Write the fraction-decimal-percent equivalents.

Fraction →divide	Decimal → ×100	Percent
$\frac{1}{3}$		
		$66\frac{2}{3}\%$
$\frac{1}{6}$		
$\frac{5}{6}$		
	.125	
$\frac{3}{8}$		
$\frac{5}{8}$		
		$87\frac{1}{2}\%$

→add all the sides

Find the <u>perimeter</u> / c̶i̶r̶c̶u̶m̶f̶e̶r̶e̶n̶c̶e̶ of the following shapes:

7. Rectangle: _____

$3\frac{1}{4}$ ft

$5\frac{1}{2}$ ft

8. Square: _____

2.8 ft

9. Circle: _____

Radius = 7 in.

10. Parallelogram: _____

8.5 ft

3.6 ft

11. Triangle: _____

$2\frac{1}{8}$ ft $2\frac{1}{8}$ ft

$2\frac{1}{8}$ ft
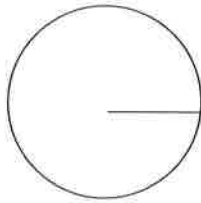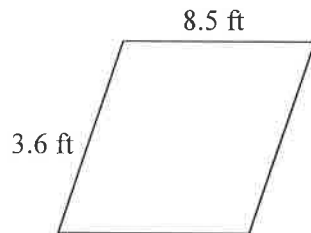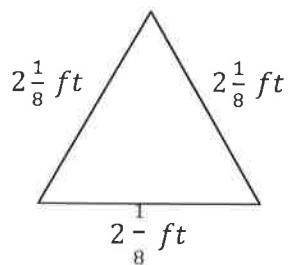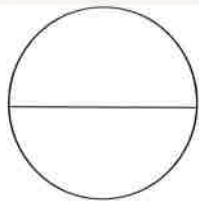
12. Circle: _____

Diameter = 6 in

Summer Review - Week # 6

Please show any work you have done to complete each problem.

Order of Operations:

Remember: PEMDAS (Parenthesis first, exponents second, multiplication and division from left to right, third, and addition and subtraction from left to right, last)

1) $24 \div 2 \cdot 3$

2) $3 + 4 - 2$

3) $33 - 9 \cdot 3$

4) $5 + 4 \cdot 9$

5) $(25 - 10) \div (2 + 3)$

6) $\dfrac{4(2+3)}{13-10\div2}$

7) $2 \cdot (4 + 3)^2$

8) $4^3 + 2 \cdot 2$

9) $4 + 9 \cdot 3^2$

10) $54 - 2 \cdot 3$