



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. This will help if you are asked how you got the answer. These review sheets will be collected on the first day of school and will be counted as one quiz grade for the first quarter. Each page will count as 5 points out of a total of 80 points. The pages will be graded for accuracy and completion. You may get help from your parents, but do not use a calculator. Doing these review sheets will help you prepare for the seventh grade Pre-Algebra skills.

Have a great summer!! See you soon!

~Mrs. Thangaraj

Name _____

Summer Review - Week

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

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

Example: 23.456 4 tenths

1. 4.567296 _____

2. 23.486 _____

3. 3.05423 _____

4. 8,456.68 _____

5. 953,023 _____

6. 8.9723 _____

Multiple Choice: Circle the correct answer.

7. What is the value of the underlined digit in the number 7.0878?

- 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

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

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

Write each improper fraction as a mixed number.

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

Write each mixed number as an improper fraction.

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

Compare using =, <, or >.

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. $\frac{7}{9} - \frac{5}{9} =$ _____

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

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

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

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

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

Multiply fractions and mixed numbers.

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

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

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

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

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

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

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

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

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

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

Summer Review - Week # 4

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

Divide fractions and mixed numbers.

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

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

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

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

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

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

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

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

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

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

Write the fraction-decimal-percent equivalents.

Fraction	Decimal	Percent
$\frac{1}{2}$		
		25%
$\frac{3}{4}$		
	.2	
$\frac{2}{5}$		
		60%
$\frac{4}{5}$		

Find the area of the following shapes:

1. Rectangle: _____

Length = 5 ft

Width = 3 ft

2. Square: _____

Side = 20 ft

3. Circle: _____

Radius = 10 in.

4. Parallelogram: _____

Base = 6 ft

Height = 4 ft

5. Triangle: _____

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.

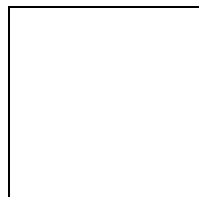
Write the fraction-decimal-percent equivalents.

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

Find the perimeter / circumference of the following shapes:

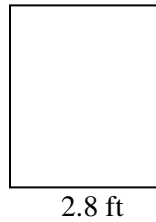
7. Rectangle:

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



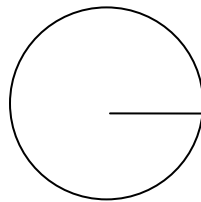
$5\frac{1}{2}$ ft

8. Square: _____

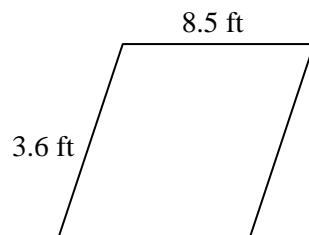


9. Circle: _____

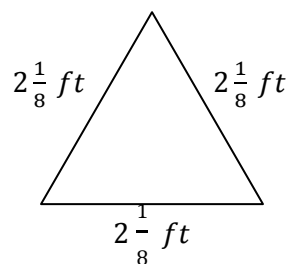
Radius = 7 in.



10. Parallelogram: _____

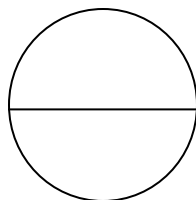


11. Triangle: _____



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) $\frac{4(2+3)}{13-10 \div 2}$

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

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

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

10) $54 - 2 \cdot 3$

Write the fraction-decimal-percent equivalents.

Fraction	Decimal	Percent
$2\frac{1}{4}$		
		$8\frac{3}{4}\%$
$3\frac{3}{8}$		
$\frac{7}{20}$		
		15%
		$7\frac{3}{8}\%$
$1\frac{1}{4}$		

Solve the following percent problems.

1. Find 6% of 360. _____

Hint: Multiply

2. Find what percent 25 is of 40. _____

Hint: Divide

3. 12 is 20% of what number? _____

Hint: Divide

Summer Review - Week

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

Solve the following equations. Show all of your work.

1) $x + 5 = 12$

2) $x - 8 = 20$

3) $\frac{x}{9} = 3$

4) $7x = 21$

5) $3x - 6 = 9$

6) $4x + 2 = 10$

7) $7x = 56$

8) $2x - 7 = 3$

9) $13x + 8 = 21$

10) $\frac{x}{4} - 2 = 6$

11) $\frac{x}{8} = \frac{3}{12}$

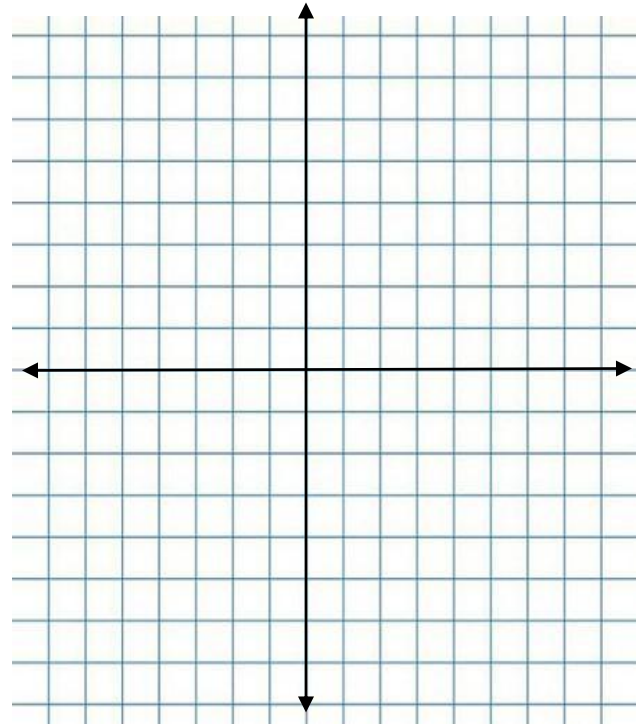
12) $\frac{8}{15} = \frac{x}{9}$

13) $\frac{x}{3} + 2 = 5$

Graph and label each ordered pair on the coordinate plane.

Remember, the first number in an ordered pair is the x-value, and the second number is the y- value. The first one is done for you.

- 1) A (3, 5)
- 2) B (-2, 5)
- 3) C (2, -3)
- 4) D (3, 6)
- 5) E (6, 0)
- 6) F (-1, -4)
- 7) G (0, -5)
- 8) I (1, 1)



Solve the following:

- 1) Find $18\frac{1}{2}\%$ of 200.
- 2) 5 is what percent of 60?
- 3) 12 is 20% of what number?

Summer Review - Week

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

Convert the following measures:

1) 3ft. = _____ in.

2) $\frac{1}{4}$ ft. = _____ in.

3) 6 in. = _____ ft.

4) 1 gal. = _____ qt.

5) 5 gal. = _____ qt.

6) $\frac{1}{2}$ gal. = _____ qt.

7) 12 qt. = _____ gal.

8) 7 qt. = _____ gal.

9) 6 lb. = _____ oz.

10) $\frac{3}{4}$ lb. = _____ oz.

11) 6 oz. = _____ lb.

12) 2 bu. = _____ pk.

13) 5 pk. = _____ bu.

14) 5 pt. = _____ fl. oz.

Add, subtract, or multiply compound measures:

$$\begin{array}{r} 1) \quad 9 \text{ hr. } 6 \text{ min.} \\ \quad 4 \text{ hr. } 5 \text{ min.} \\ + \quad 8 \text{ hr. } 9 \text{ min.} \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 25 \text{ lb.} \\ \quad - 7 \text{ lb. } 7 \text{ oz.} \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 8 \text{ gal. } 2 \text{ qt.} \\ \quad \times \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 8 \text{ pk. } 3 \text{ qt.} \\ \quad - 3 \text{ pk. } 5 \text{ qt.} \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 3 \text{ lb. } 13 \text{ oz.} \\ \quad + 4 \text{ lb. } 12 \text{ oz.} \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 7 \text{ hr. } 45 \text{ min.} \\ \quad \times \quad 4 \\ \hline \end{array}$$

Convert the following temperatures to the given temperature scales:

Formulas:

$$C = \frac{5}{9} \times (F - 32) ; \quad F = \frac{9}{5} \times C + 32$$

$$1) \quad 45^{\circ}\text{C} = \text{_____}^{\circ}\text{F}$$

$$2) \quad 28^{\circ}\text{C} = \text{_____}^{\circ}\text{F}$$

$$3) \quad 56^{\circ}\text{F} = \text{_____}^{\circ}\text{C}$$

$$4) \quad 77^{\circ}\text{F} = \text{_____}^{\circ}\text{C}$$