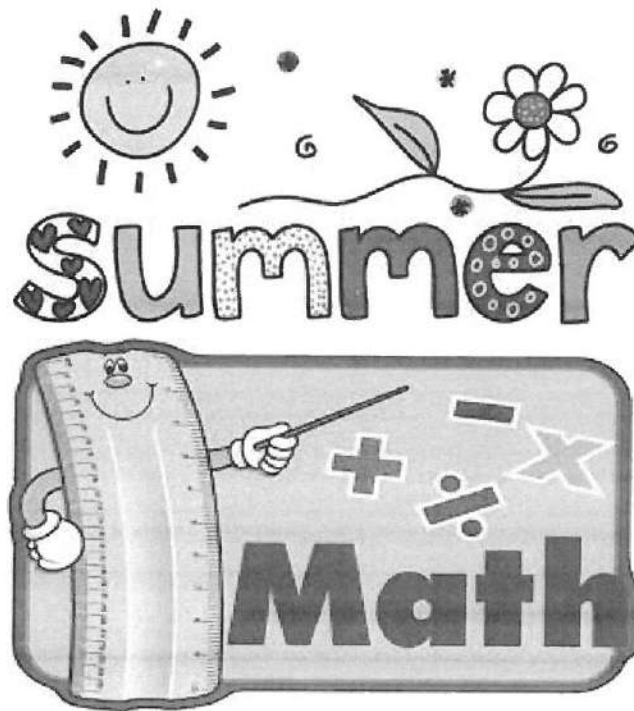


Dear Class entering 7th grade:

I have made a summer packet for 6 weeks of summer work. Each week is on its own page. All the material in the packet should have been completed in 6th grade, and some work you may have to review notes in order to remember how to complete the work.

The summer work will be collected the first full week of school. Have a great summer!

Ms. Ross



Week 1 ---

1. Simplify the following
 - a. $10/15 =$
 - b. $8/12 =$
 - c. $20/30 =$
 - d. $16/20 =$
 - e. $12/14 =$

2. Find the area and perimeter of the following.
 - a. Square whose side is 8 ft.
Perimeter: ($P = 4s$)
Area: ($A = s \times s$)
 - b. Rectangle with a length of 5m and width of 12m
Perimeter: ($P = 2L + 2W$)
Area: (Length X width)

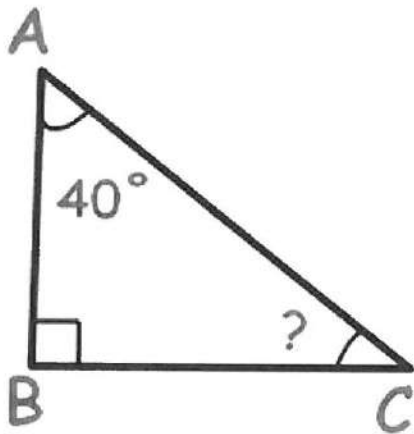
3. Find the greatest common factor of the following:
 - a. 3, 4
 - b. 5, 10
 - c. 12, 26
 - d. 8, 12

4. Change the following fractions to mixed numbers.
 - a. $24/7$
 - b. $13/2$
 - c. $18/10$
 - d. $7/5$

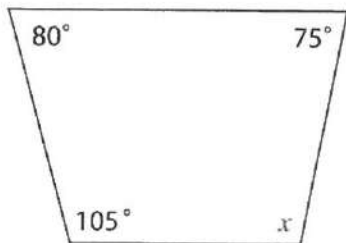
5. Find the mean, median, mode and range of the following numbers: 3, 8, 12, 5
Mean:
Median:
Mode:
Range:

Week 2 ----

- Find the volume of the following rectangular prisms. ($V = L \times W \times H$)
 - $L = 10\text{m}$, $W = 7\text{ m}$, $H = 6\text{ m}$ $V =$
 - $L = 12.5\text{m}$ $W = 9.5\text{m}$ $H = 7.25\text{m}$ $V =$
 - $L = 18\text{m}$ $W = 6\text{m}$ $H = 2.5\text{m}$ $V =$
- Simplify the following fractions
 - $\frac{3}{27}$
 - $\frac{5}{60}$
 - $\frac{6}{66}$
 - $\frac{22}{55}$
- Find the perimeter and area of the following.
 - Square whose side is 9 ft
 Area: (Side \times Side) =
 Perimeter: ($P = 4s$) =
 - Rectangle whose length is 13 m, and height is 6 m
 Area: ($A = \text{Length} \times \text{Width}$) =
 Perimeter: ($P = 2L + 2W$) =
- Find the greatest common factor of the following.
 - 18, 27
 - 36, 40
 - 42, 50
 - 8, 15
- Find the missing angles.



a.



b.

Week 3:

1. Find the least common multiple of the following.
 - a. 5, 6
 - b. 7, 8
 - c. 12, 15
 - d. 20, 30
2. Find the prime factorization of each of the following numbers. (make a factor tree)
 - a. 18
 - b. 24
 - c. 38
 - d. 81
3. Simplify the following fractions
 - a. $\frac{14}{49}$
 - b. $\frac{16}{50}$
 - c. $\frac{36}{40}$
 - d. $\frac{20}{25}$
 - e. $\frac{21}{60}$
4. Change the following mixed numbers to improper fractions
 - a. $1\frac{2}{5}$
 - b. $2\frac{3}{5}$
 - c. $7\frac{3}{4}$
 - d. $4\frac{1}{2}$
5. Find the mean, median, mode and range of 5, 5, 7, 5, 9, 11, 18
Mean:
Median:
Mode:
Range:

Week 4:

1. Add the following integers (Same sign, add the following and keep the sign, different signs, subtract and keep the sign of the higher number)
 - a. $-6 + -5$
 - B. $-8 + -12$
 - C. $-12 + 10$
 - D. $-9 + 9$
2. Complete the table below with the corresponding fractions, decimals and percents.

Fraction	Decimal	Percent
$1/4$		
	0.31	
		22%
$3/5$		
	0.88	

3. Add the following fractions. Answers must be simplified.
 - a. $\frac{1}{4} + \frac{3}{4} =$
 - b. $\frac{9}{10} + \frac{3}{10}$
 - c. $\frac{7}{12} + \frac{3}{12}$
 - d. $\frac{8}{9} + \frac{7}{9}$
4. Multiply the following decimals.
 - a. $0.25 \times 3.4 =$
 - b. $1.5 \times 0.25 =$
 - c. $0.85 \times 4.5 =$
 - d. $12.25 \times 9.125 =$
5. Multiply or divide the following integers
 - a. -13×-3
 - b. -20×9
 - c. $144 \div -12$
 - d. $-195 \div -5$

1. State whether the following are prime or composite.
 - a. 10
 - b. 25
 - c. 19
 - d. 31
 - e. 50
2. Find the prime factorization of each
 - a. 25
 - b. 36
 - c. 49
 - d. 64
3. Find the least common multiple of the following sets of numbers
 - a. 12, 18
 - b. 6, 8
 - c. 9, 12
 - d. 15, 18
4. Find the volume of the following rectangular prisms. ($V = L \times W \times H$)
 - a. $L = 22\text{cm}$; $w = 6\text{cm}$, $h = 7\text{ cm}$
 - b. $L = 8\text{ in}$; $w = 7\text{ in}$; $h = 9\text{ in}$
5. Find the mean, median, mode and range of the following: 9, 9, 12, 5, 4, 3, 2
 - a. Mean:
 - b. Median:
 - c. Mode:
 - d. Range

Week 6:

1. Put these fractions in order from least to greatest.
 - a. $10/11$; $7/11$; $1/11$

- b. $\frac{1}{5}$; $\frac{3}{5}$; $\frac{2}{5}$
 - c. $\frac{3}{7}$; $\frac{2}{7}$; $\frac{5}{7}$
 - d. $\frac{3}{5}$; $\frac{1}{8}$; $\frac{2}{7}$
2. Solve for m; when m = 52.
- a. M + 25
 - b. M - 12
 - c. M + 13
 - d. M - 18
3. Complete the following table.

Fraction	Decimal	Percent
$\frac{3}{4}$		
$\frac{7}{25}$		
	0.24	
	0.12	
		90%
		14%

4. Find the least common multiple of the following
- a. 7, 12
 - b. 2, 9
 - c. 4, 8
 - d. 6, 14
5. Find the greatest common factor of the following
- a. 72, 82
 - b. 34, 51
 - c. 42, 63
 - d. 46, 92
 - e. 15, 90
6. Find the mean, median, mode and range of the following: 5, 7, 4, 9, 4, 1, 16, 17
- Mean:
- Median
- Mode
- Range