

7th Grade Readiness Packet

This summer packet contains material learned during the sixth grade. In order to be ready to take seventh grade Math, please make sure you have mastered this material. Complete the worksheets for those topics that you need to learn prior to coming back in September.

There are weekly practice problems and answer keys, as well as surface area and volume practice and answer keys. If you find you cannot do a particular skill, look it up in the textbook or online!

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Opposite Integers

Sheet 1

A) Write the opposite value of each integer.

1) Opposite of 12 _____

2) Opposite of -25 _____

3) Opposite of -99 _____

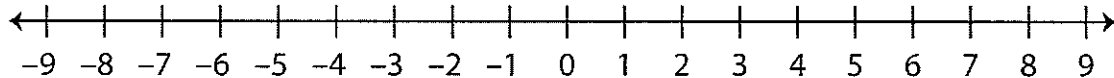
4) Opposite of 4 _____

5) Opposite of 36 _____

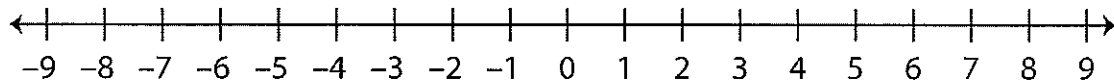
6) Opposite of -57 _____

B) Mark each integer given below and its opposite value on the number line.

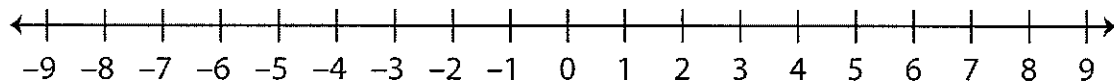
1) 2



2) -5



3) 1



C) Evaluate each expression.

1) Opposite of $-(-24)$ _____2) Opposite of $+(-8)$ _____3) Opposite of $+(+15)$ _____4) Opposite of $-(+33)$ _____5) Opposite of $+(-40)$ _____6) Opposite of $-(-6)$ _____

Answer Key**Opposite Integers**

Sheet 1

A) Write the opposite value of each integer.

1) Opposite of 12 -12

2) Opposite of -25 25

3) Opposite of -99 99

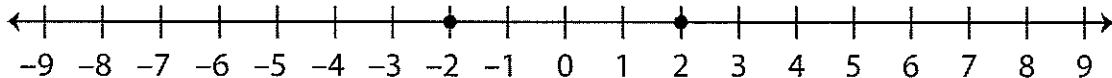
4) Opposite of 4 -4

5) Opposite of 36 -36

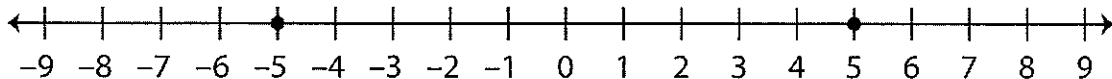
6) Opposite of -57 57

B) Mark each integer given below and its opposite value on the number line.

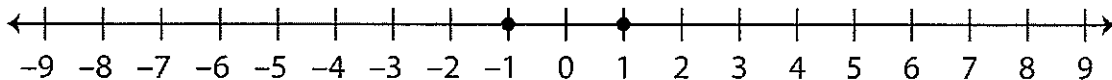
1) 2



2) -5



3) 1



C) Evaluate each expression.

1) Opposite of $-(-24)$ -24

2) Opposite of $+(-8)$ 8

3) Opposite of $+(+15)$ -15

4) Opposite of $-(+33)$ 33

5) Opposite of $+(-40)$ 40

6) Opposite of $-(-6)$ -6

Integers

Sheet 1

A) Write the opposite value of each integer.

1) Opposite of -51 _____2) Opposite of 9 _____3) Opposite of 32 _____4) Opposite of -74 _____5) Opposite of -6 _____6) Opposite of 20 _____7) Opposite of 83 _____8) Opposite of -18 _____

B) Write the absolute value of each integer.

1) $|-13|$ _____2) $-|-37|$ _____3) $-|-91|$ _____4) $|52|$ _____5) $|16|$ _____6) $-|88|$ _____7) $-|45|$ _____8) $|-7|$ _____C) Compare using the symbols $<$, $>$ or $=$ 1) Absolute value of -34 Opposite of $|17|$ 2) Opposite of -25 Absolute value of -25 3) Opposite of 11 Opposite of 14 4) Absolute value of 40 Absolute value of -85

Name : _____

Score : _____

Answer Key

Integers

Sheet 1

A) Write the opposite value of each integer.

1) Opposite of -51 51

2) Opposite of 9 -9

3) Opposite of 32 -32

4) Opposite of -74 74

5) Opposite of -6 6

6) Opposite of 20 -20

7) Opposite of 83 -83

8) Opposite of -18 18

B) Write the absolute value of each integer.

1) $|-13|$ 13

2) $-|-37|$ -37

3) $-|-91|$ -91

4) $|52|$ 52

5) $|16|$ 16

6) $-|88|$ -88

7) $-|45|$ -45

8) $|-7|$ 7

C) Compare using the symbols $<$, $>$ or $=$

1) Absolute value of -34 $>$ Opposite of $|17|$

2) Opposite of -25 $=$ Absolute value of -25

3) Opposite of 11 $>$ Opposite of 14

4) Absolute value of 40 $<$ Absolute value of -85

Name : _____

Score : _____

Integers - True or False?

Sheet 1

Read the statements below and label them true or false.

- 1) The product of two negative integers is positive. _____
- 2) The additive inverse of a positive integer is positive. _____
- 3) Zero is a neutral integer. It can be either positive or negative. _____
- 4) Two integers that are at an equal distance from zero on either side of the number line are called opposites. _____
- 5) Whole numbers are integers that can be positive, negative and zero.

- 6) In a number line, all positive integers lie to the right of zero and all negative integers lie to the left of zero. _____
- 7) When a negative integer is added to a positive integer, we either get a positive or negative integer. _____
- 8) Zero is greater than every positive integer. _____
- 9) Negative integers are always greater than positive integers. _____
- 10) Opposite integers have the same absolute value. _____

Answer Key**Integers - True or False?**

Sheet 1

Read the statements below and label them true or false.

- 1) The product of two negative integers is positive. True
- 2) The additive inverse of a positive integer is positive. False
- 3) Zero is a neutral integer. It can be either positive or negative. False
- 4) Two integers that are at an equal distance from zero on either side of the number line are called opposites. True
- 5) Whole numbers are integers that can be positive, negative and zero.
False
- 6) In a number line, all positive integers lie to the right of zero and all negative integers lie to the left of zero. True
- 7) When a negative integer is added to a positive integer, we either get a positive or negative integer. True
- 8) Zero is greater than every positive integer. False
- 9) Negative integers are always greater than positive integers. False
- 10) Opposite integers have the same absolute value. True

Name : _____

Score : _____

Integers

Level 1: S1

Simplify.

1) $9 \times (-4) =$ _____

2) $(-16) + 17 =$ _____

3) $(-12) - 5 =$ _____

4) $(-9) \div (-3) =$ _____

5) $(-14) + (-1) =$ _____

6) $(-6) \times 0 =$ _____

7) $20 \div (-2) =$ _____

8) $14 - 13 =$ _____

9) $4 + 5 =$ _____

10) $(-6) \times (-7) =$ _____

11) $(-15) \div 3 =$ _____

12) $11 + (-19) =$ _____

13) $(-17) - (-19) =$ _____

14) $8 \div 1 =$ _____

15) $2 \times 7 =$ _____

16) $18 - (-10) =$ _____

Name : _____

Score : _____

Answer Key

Integers

Level 1: 51

Simplify.

1) $9 \times (-4) = \underline{-36}$

2) $(-16) + 17 = \underline{1}$

3) $(-12) - 5 = \underline{-17}$

4) $(-9) \div (-3) = \underline{3}$

5) $(-14) + (-1) = \underline{-15}$

6) $(-6) \times 0 = \underline{0}$

7) $20 \div (-2) = \underline{-10}$

8) $14 - 13 = \underline{1}$

9) $4 + 5 = \underline{9}$

10) $(-6) \times (-7) = \underline{42}$

11) $(-15) \div 3 = \underline{-5}$

12) $11 + (-19) = \underline{-8}$

13) $(-17) - (-19) = \underline{2}$

14) $8 \div 1 = \underline{8}$

15) $2 \times 7 = \underline{14}$

16) $18 - (-10) = \underline{28}$

Name : _____

Score : _____

Integers - MCQ

Sheet 1

- 1) Which integer is greater than -5 ?
a) -7 b) -1 c) -9 d) -11





- 2) How many integers are there between -8 and 2 ?
a) 7 b) 4 c) 0 d) 9

- 3) What is the opposite value of the integer 6 ?
a) -6 b) 5 c) 6 d) -4

- 4) Identify the integer that is less than -3 .
a) 0 b) -1 c) -4 d) 2

- 5) Which of the following integers is greater than -1 and lesser than 7 ?
a) -9 b) 5 c) -5 d) 8





- 6) How many pairs of opposite integers are there between -4 and 5 ?
a) 3 b) 8 c) 2 d) 6

- 7) The following data shows the changes in temperatures across various cities from morning to noon. Which city recorded the maximum temperature?
a)  b)  c)  d) 

Answer Key

Integers - MCQ

Sheet 1

- 1) Which integer is greater than -5 ?
- a) -7 b) -1 c) -9 d) -11
- 2) How many integers are there between -8 and 2 ?
- a) 7 b) 4 c) 0 d) 9
- 3) What is the opposite value of the integer 6 ?
- a) -6 b) 5 c) 6 d) -4
- 4) Identify the integer that is less than -3 .
- a) 0 b) -1 c) -4 d) 2
- 5) Which of the following integers is greater than -1 and lesser than 7 ?
- a) -9 b) 5 c) -5 d) 8
- 6) How many pairs of opposite integers are there between -4 and 5 ?
- a) 3 b) 8 c) 2 d) 6
- 7) The following data shows the changes in temperatures across various cities from morning to noon. Which city recorded the maximum temperature?
- a)  Atlanta b)  Chicago c)  Boston d)  Houston

One-Step Equations

Solve each equation.

1) $26 = 8 + v$

2) $3 + p = 8$

3) $15 + b = 23$

4) $-15 + n = -9$

5) $m + 4 = -12$

6) $x - 7 = 13$

7) $m - 9 = -13$

8) $p - 6 = -5$

9) $v - 15 = -27$

10) $n + 16 = 9$

11) $-104 = 8x$

12) $14b = -56$

13) $-6 = \frac{b}{18}$

14) $10n = 40$

$$15) \frac{v}{8} = 2$$

$$16) 16 = \frac{k}{11}$$

$$17) -15x = 0$$

$$18) -17x = -204$$

$$19) 21 = -7n$$

$$20) \frac{m}{4} = -13$$

$$21) -126 = 14k$$

$$22) -143 = -11x$$

$$23) -16 + x = -15$$

$$24) -5 = \frac{a}{18}$$

$$25) -17 = x - 15$$

$$26) n - 8 = -10$$

$$27) \frac{v}{7} = 8$$

$$28) a + 11 = 20$$

$$29) -7 + m = 8$$

$$30) 18 + m = 8$$

One-Step Equations

Solve each equation.

1) $26 = 8 + v$

 $\{18\}$

2) $3 + p = 8$

 $\{5\}$

3) $15 + b = 23$

 $\{8\}$

4) $-15 + n = -9$

 $\{6\}$

5) $m + 4 = -12$

 $\{-16\}$

6) $x - 7 = 13$

 $\{20\}$

7) $m - 9 = -13$

 $\{-4\}$

8) $p - 6 = -5$

 $\{1\}$

9) $v - 15 = -27$

 $\{-12\}$

10) $n + 16 = 9$

 $\{-7\}$

11) $-104 = 8x$

 $\{-13\}$

12) $14b = -56$

 $\{-4\}$

13) $-6 = \frac{b}{18}$

 $\{-108\}$

14) $10n = 40$

 $\{4\}$

$$15) \frac{v}{8} = 2$$

$$\{16\}$$

$$16) 16 = \frac{k}{11}$$

$$\{176\}$$

$$17) -15x = 0$$

$$\{0\}$$

$$18) -17x = -204$$

$$\{12\}$$

$$19) 21 = -7n$$

$$\{-3\}$$

$$20) \frac{m}{4} = -13$$

$$\{-52\}$$

$$21) -126 = 14k$$

$$\{-9\}$$

$$22) -143 = -11x$$

$$\{13\}$$

$$23) -16 + x = -15$$

$$\{1\}$$

$$24) -5 = \frac{a}{18}$$

$$\{-90\}$$

$$25) -17 = x - 15$$

$$\{-2\}$$

$$26) n - 8 = -10$$

$$\{-2\}$$

$$27) \frac{v}{7} = 8$$

$$\{56\}$$

$$28) a + 11 = 20$$

$$\{9\}$$

$$29) -7 + m = 8$$

$$\{15\}$$

$$30) 18 + m = 8$$

$$\{-10\}$$

Name : _____ Score : _____

Teacher : _____ Date : _____

Mean, Mode, Median, and Range

1) 2, 2, 2, 7, 9, 7, 1, 6, 3, 1

6) 1, 5, 9, 7, 5, 3

Mean ____ Median ____ Mode _____ Range ____

Mean ____ Median ____ Mode _____ Range ____

2) 7, 4, 4, 2, 5, 2

7) 8, 9, 5, 4, 6, 2, 6, 3, 2

Mean ____ Median ____ Mode _____ Range ____

Mean ____ Median ____ Mode _____ Range ____

3) 2, 3, 3, 8, 5, 2, 9, 8

8) 4, 6, 4, 5, 1

Mean ____ Median ____ Mode _____ Range ____

Mean ____ Median ____ Mode _____ Range ____

4) 5, 6, 7, 9, 6, 6, 2, 3, 2, 4

9) 4, 7, 3, 2, 8, 4, 7

Mean ____ Median ____ Mode _____ Range ____

Mean ____ Median ____ Mode _____ Range ____

5) 6, 5, 6, 9, 8, 7, 8

10) 8, 3, 4, 2, 6, 5, 4, 8

Mean ____ Median ____ Mode _____ Range ____

Mean ____ Median ____ Mode _____ Range ____



Name : _____

Score : Key

Teacher : _____

Date : _____

Mean, Mode, Median, and Range

1) 2, 2, 2, 7, 9, 7, 1, 6, 3, 1
1, 1, 2, 2, 2, 3, 6, 7, 7, 9

6) 1, 5, 9, 7, 5, 3
1, 3, 5, 5, 7, 9

Mean 4 Median 2.5 Mode 2 Range 8

Mean 5 Median 5 Mode 5 Range 8

2) 7, 4, 4, 2, 5, 2
2, 2, 4, 4, 5, 7

7) 8, 9, 5, 4, 6, 2, 6, 3, 2
2, 2, 3, 4, 5, 6, 6, 8, 9

Mean 4 Median 4 Mode 2, 4 Range 5

Mean 5 Median 5 Mode 2, 6 Range 7

3) 2, 3, 3, 8, 5, 2, 9, 8
2, 2, 3, 3, 5, 8, 8, 9

8) 4, 6, 4, 5, 1
1, 4, 4, 5, 6

Mean 5 Median 4 Mode 2, 3, 8 Range 7

Mean 4 Median 4 Mode 4 Range 5

4) 5, 6, 7, 9, 6, 6, 2, 3, 2, 4
2, 2, 3, 4, 5, 6, 6, 6, 7, 9

9) 4, 7, 3, 2, 8, 4, 7
2, 3, 4, 4, 7, 7, 8

Mean 5 Median 5.5 Mode 6 Range 7

Mean 5 Median 4 Mode 4, 7 Range 6

5) 6, 5, 6, 9, 8, 7, 8
5, 6, 6, 7, 8, 8, 9

10) 8, 3, 4, 2, 6, 5, 4, 8
2, 3, 4, 4, 5, 6, 8, 8

Mean 7 Median 7 Mode 6, 8 Range 4

Mean 5 Median 4.5 Mode 4, 8 Range 6

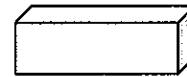


Formula Card:

Rectangle - $A = l \cdot w$ $P = l + l + w + w$



Rectangular prism - $V = l \cdot w \cdot h$



Examples of different problems and the work that should accompany the problems:

Ex. 1 If $M = 5$, simplify the following:

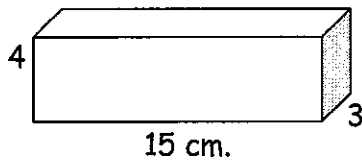
$$M + 7$$

$$5 + 7$$

$$12$$

Ex. 2 Find the volume of the figures:

a)



$$V = l \cdot w \cdot h$$

$$V = 3 \times 15 \times 4$$

$$V = 180 \text{ cm}^3$$

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

Show your work! Show your work! Show your work!

Show your work! Show your work! Show your work!



Name _____

Summer Review - Week #1



Complete each of the problems below. Please show all of your work.

1) Reduce each of the following fractions:

a) $\frac{10}{15} = \text{---}$

b) $\frac{8}{12} = \text{---}$

c) $\frac{20}{30} = \text{---}$

d) $\frac{6}{9} = \text{---}$

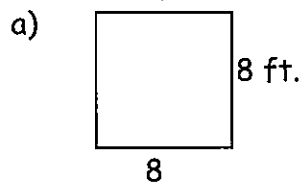
e) $\frac{4}{6} = \text{---}$

f) $\frac{12}{14} = \text{---}$

g) $\frac{25}{50} = \text{---}$

h) $\frac{16}{20} = \text{---}$

2) Find the perimeter and area of the figures:



P =

P =

A =

A =



3) Find the greatest common factor (GCF) of the following sets of numbers:

a) 3, 4

b) 5, 10

c) 12, 26

d) 8, 12

4) If $M = 10$, simplify each of the following:

a) $M + 6$

b) $M - 7$

c) $15 - M$

d) $4M$

5) Change the following fractions to mixed numbers:

a) $\frac{24}{7} = \text{---}$

b) $\frac{13}{2} = \text{---}$

c) $\frac{18}{10} = \text{---}$

d) $\frac{7}{5} = \text{---}$

Show your work! Show your work! Show your work!

Show your work! Show your work! Show your work!



6) Fill in the table with the corresponding fractions, decimals, and percents:

	Fractions	Decimals	Percents
a)	$\frac{1}{2}$.5	50%
b)	$\frac{4}{25}$		%
c)	$\frac{4}{5}$		%
d)	—	.3	%

	Fractions	Decimals	Percents
j)	—	.42	%
k)	—	.56	%
l)	—		68%
m)	—		85%

7) Change the following mixed numbers to improper fractions:

a) $3\frac{1}{8} = \text{—}$

b) $5\frac{4}{7} = \text{—}$

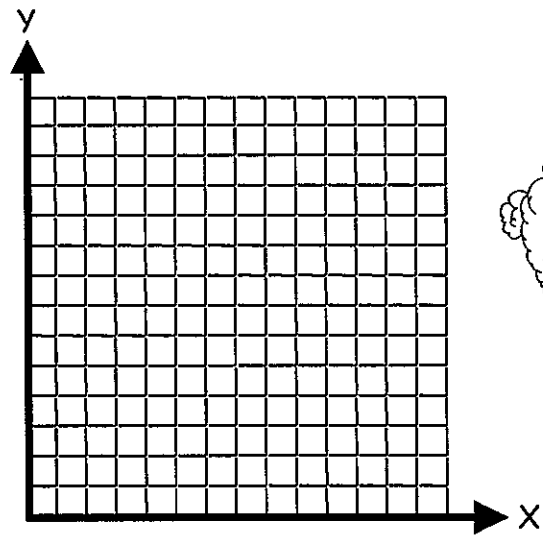
c) $9\frac{1}{11} = \text{—}$

d) $4\frac{2}{7} = \text{—}$

8) Graph each of the points.



X	Y
0	8
1	7
2	6
3	5
4	4
5	3
6	2
7	1



9) Maria has three red dresses, 2 white dresses, and one blue dress. What is the probability she will wear a blue dress at her party?



Show your work! Show your work! Show your work!

Show your work! Show your work! Show your work!

Name _____



Summer Review - Week

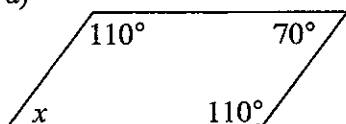
2

Complete each of the problems below. Please show all of your work.



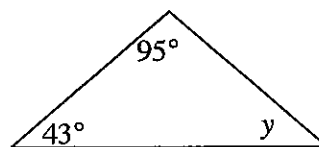
1) Find the missing angles:

a)



x =

b)



y =

2) Find the mean, median, mode, and range of the following set of numbers: 3, 8, 12, 5

mean =

median =

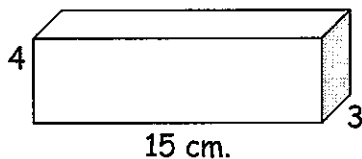
mode =

range =



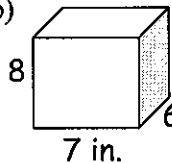
3) Find the volume of the figures:

a)



V = _____

b)



V = _____

4) Reduce each of the following fractions:

a) $\frac{3}{27} = \frac{\quad}{\quad}$

b) $\frac{4}{40} = \frac{\quad}{\quad}$

c) $\frac{5}{60} = \frac{\quad}{\quad}$

d) $\frac{6}{66} = \frac{\quad}{\quad}$

e) $\frac{7}{28} = \frac{\quad}{\quad}$

f) $\frac{8}{10} = \frac{\quad}{\quad}$

g) $\frac{9}{45} = \frac{\quad}{\quad}$

h) $\frac{10}{70} = \frac{\quad}{\quad}$

i) $\frac{9}{36} = \frac{\quad}{\quad}$

j) $\frac{14}{35} = \frac{\quad}{\quad}$

k) $\frac{12}{18} = \frac{\quad}{\quad}$

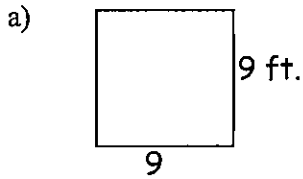
l) $\frac{22}{55} = \frac{\quad}{\quad}$

Show your work! Show your work! Show your work!



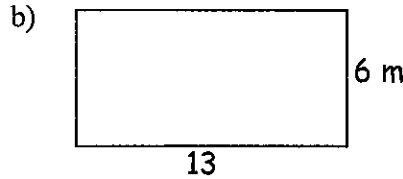
Show your work! Show your work! Show your work!

5) Find the perimeter and area of the figures:



P =

A =



P =

A =



6) Find the greatest common factor (GCF) of the following sets of numbers:

a) 18, 27

b) 36, 40

c) 42, 50

d) 8, 15

7) If $M = 54$, simplify each of the following:

a) $M + 7$

b) $M - 28$

c) $91 - M$

d) $3M$



8) Change the following fractions to mixed numbers:

a) $\frac{23}{8} =$ _____

b) $\frac{14}{3} =$ _____

c) $\frac{19}{11} =$ _____

d) $\frac{8}{7} =$ _____

e) $\frac{17}{9} =$ _____

f) $\frac{27}{8} =$ _____

g) $\frac{35}{3} =$ _____

h) $\frac{9}{4} =$ _____

9) Find the least common multiple (LCM) of the following sets of numbers:

a) 5, 6

b) 7, 8

c) 12, 15

d) 20, 30

10) Find the mean, median, mode, and range of the following set of numbers: 5, 5, 7, 5, 9, 11, 18

mean =

median =

mode =

range =



Show your work! Show your work! Show your work!

Show your work! Show your work! Show your work!

Name _____

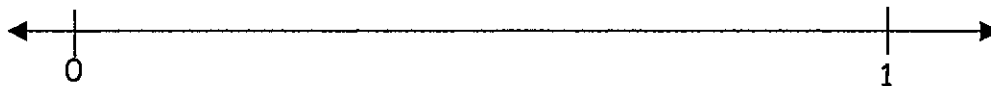


Summer Review - Week #3

Complete each of the problems below. Please show all of your work.



1) Put the following fractions on the number line where they belong: $\frac{5}{6}$, $\frac{4}{5}$, $\frac{2}{3}$



2) Find the prime factorization of each of the following numbers:

a) 18

b) 24

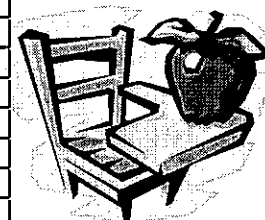
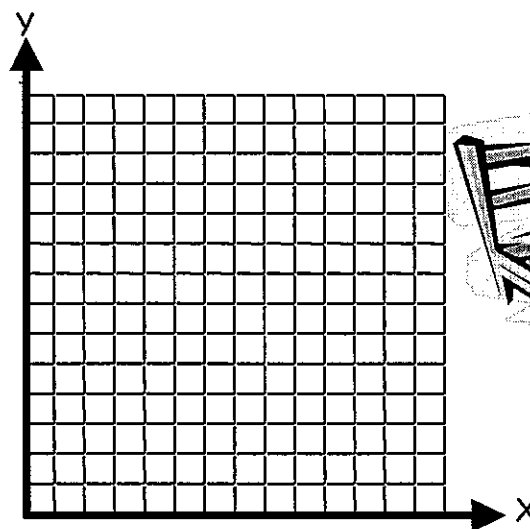
c) 38

d) 81

3) Graph each of the points.



X	Y
0	2
1	3
2	4
3	5
4	6
5	7
6	8
7	9



4) Frank is buying his first car and is stuck on what color it should be. He has to choose between three shades of green, two shades of blue or two shades of purple. What is the probability he will choose a green car?



5) Reduce each of the following fractions:

a) $\frac{14}{49} = \frac{\quad}{\quad}$

b) $\frac{16}{50} = \frac{\quad}{\quad}$

c) $\frac{36}{40} = \frac{\quad}{\quad}$

d) $\frac{20}{25} = \frac{\quad}{\quad}$

e) $\frac{21}{60} = \frac{\quad}{\quad}$

f) $\frac{18}{45} = \frac{\quad}{\quad}$

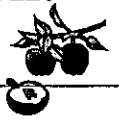
g) $\frac{24}{54} = \frac{\quad}{\quad}$

h) $\frac{45}{75} = \frac{\quad}{\quad}$

Show your work! Show your work! Show your work!

Show your work! Show your work! Show your work!

6) Fill in the table with the corresponding fractions, decimals, and percents:



	Fractions	Decimals	Percents
a)	$\frac{1}{4}$		%
b)	$\frac{7}{20}$		%
c)	$\frac{35}{50}$		%
d)	—	.31	%

	Fractions	Decimals	Percents
j)	—	.88	%
k)	—	.11	%
l)	—		78%
m)	—		22%

7) Change the following mixed numbers to improper fractions:

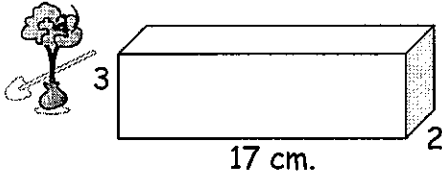
a) $1\frac{2}{5} = \text{—}$

b) $2\frac{3}{10} = \text{—}$

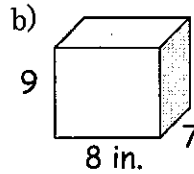
c) $3\frac{5}{12} = \text{—}$

d) $4\frac{3}{11} = \text{—}$

8) Find the volume of the figures:

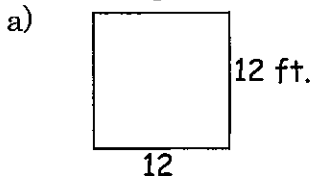


V = _____



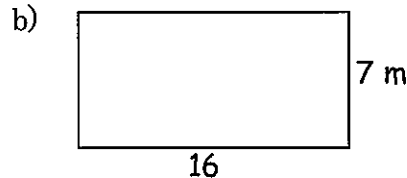
V = _____

9) Find the perimeter and area of the figures:



P =

A =



P =

A =



Show your work! Show your work! Show your work!

Show your work! Show your work! Show your work!

Name _____



Summer Review - Week # 4



Complete each of the problems below. Please show all of your work.

1) Change the following fractions to mixed numbers:

a) $\frac{27}{10} = \underline{\hspace{2cm}}$

b) $\frac{16}{5} = \underline{\hspace{2cm}}$

c) $\frac{21}{13} = \underline{\hspace{2cm}}$

d) $\frac{10}{8} = \underline{\hspace{2cm}}$

2) Find the least common multiple (LCM) of the following sets of numbers:

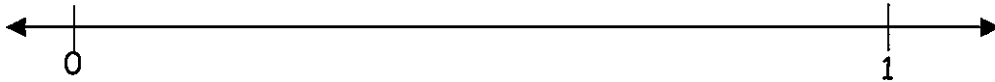
a) 12, 18

b) 6, 8

c) 9, 12

d) 15, 18

3) Put the following fractions on the number line where they belong: $\frac{3}{10}, \frac{4}{9}, \frac{5}{8}$



4) Find the prime factorization of each of the following numbers:

a) 25

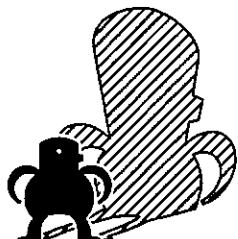
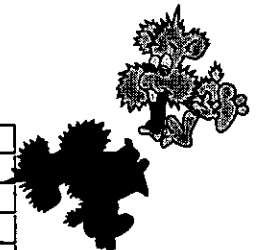
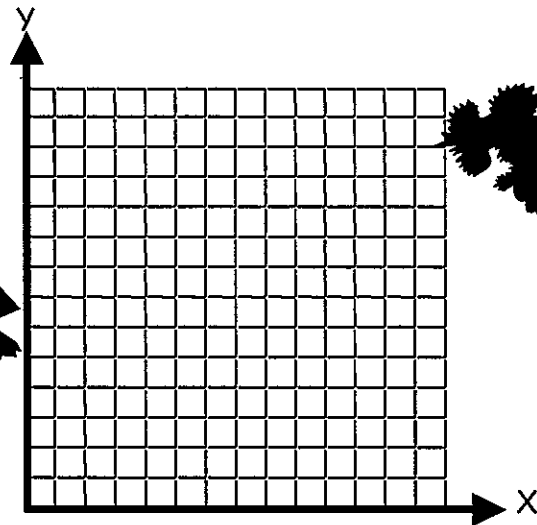
b) 36

c) 49

d) 64

5) Graph each of the points.

X	Y
0	0
1	2
2	4
3	6
4	8
5	10
6	12
7	14



Show your work! Show your work! Show your work!

Show your work! Show your work! Show your work!

6) Alina has a six sided dice that she is rolling. What is the probability she will roll a number that is a factor of 6?



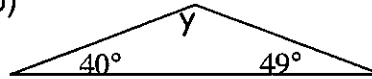
7) Find the missing angles:

a)

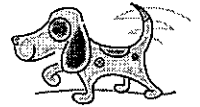


x =

b)



y =



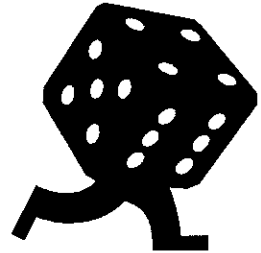
8) Find the mean, median, mode, and range of the following set of numbers: 9, 9, 12, 5, 4, 3, 2

mean =

median =

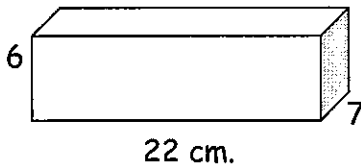
mode =

range =

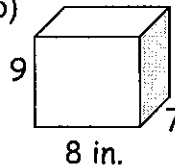


9) Find the volume of the figures:

a)



b)



V = _____

V = _____

10) Reduce each of the following fractions:

a) $\frac{30}{35} = \frac{\quad}{\quad}$

b) $\frac{20}{24} = \frac{\quad}{\quad}$

c) $\frac{32}{64} = \frac{\quad}{\quad}$

d) $\frac{7}{14} = \frac{\quad}{\quad}$

e) $\frac{28}{35} = \frac{\quad}{\quad}$

f) $\frac{40}{48} = \frac{\quad}{\quad}$

g) $\frac{18}{42} = \frac{\quad}{\quad}$

h) $\frac{9}{18} = \frac{\quad}{\quad}$

11) Find the number that corresponds with each of the following prime factorizations:

a) $2^2 \cdot 3$

b) $3^2 \cdot 5$

c) $5^2 \cdot 7$

d) $7^2 \cdot 11$

Show your work! Show your work! Show your work!



Show your work! Show your work! Show your work!

Name _____



Summer Review - Week # 5



Complete each of the problems below. Please show all of your work.

1) Reduce each of the following fractions:

a) $\frac{39}{42} = \text{---}$

b) $\frac{10}{18} = \text{---}$

c) $\frac{12}{40} = \text{---}$

d) $\frac{14}{56} = \text{---}$

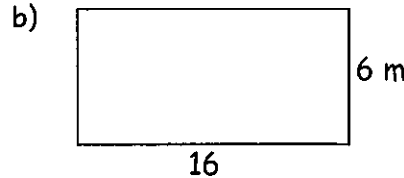
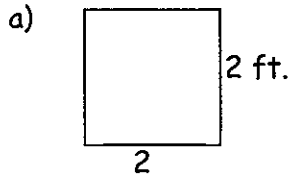
e) $\frac{16}{24} = \text{---}$

f) $\frac{18}{54} = \text{---}$

g) $\frac{20}{75} = \text{---}$

h) $\frac{21}{28} = \text{---}$

2) Find the perimeter and area of the figures:



P =

P =

A =

A =

3) Find the greatest common factor (GCF) of the following sets of numbers:

a) 12, 16

b) 18, 20

c) 35, 42

d) 50, 60



4) If $M = 27$, simplify each of the following:

a) $M + 9$

b) $M - 12$

c) $32 - M$

d) $2M$



5) Change the following fractions to mixed numbers:

a) $\frac{7}{2} = \text{---}$

b) $\frac{8}{3} = \text{---}$

c) $\frac{9}{4} = \text{---}$

d) $\frac{10}{6} = \text{---}$

e) $\frac{11}{7} = \text{---}$

f) $\frac{12}{8} = \text{---}$

g) $\frac{13}{9} = \text{---}$

h) $\frac{14}{10} = \text{---}$

Show your work! Show your work! Show your work!

Show your work! Show your work! Show your work!

6) Find the least common multiple (LCM) of the following sets of numbers:

a) 6, 7

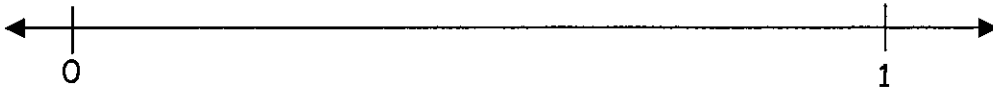
b) 7, 12

c) 8, 16

d) 9, 12



7) Put the following fractions on the number line where they belong: $\frac{3}{5}$, $\frac{1}{8}$, $\frac{2}{7}$



8) Find the prime factorization of each of the following numbers:

a) 35

b) 45

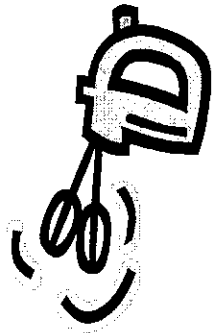
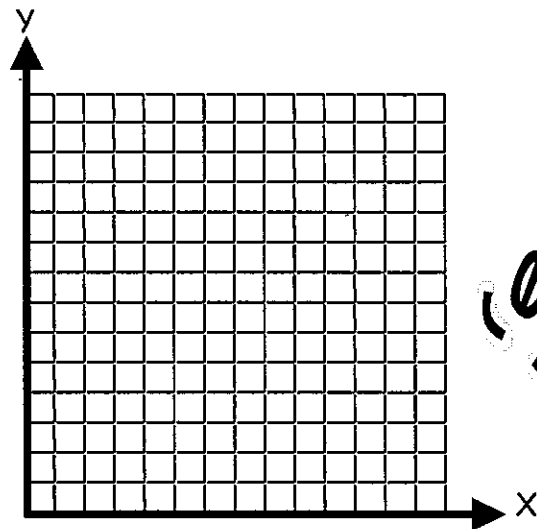
c) 55

d) 65

9) Graph each of the points.



X	Y
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7



10) Adam has decided to paint his house. What is the probability he will paint the South side of the house first?



11) Find the mean, median, mode, and range of the following set of numbers: 5, 7, 4, 9, 4, 1, 16, 17

mean =

median =

mode =

range =

Show your work! Show your work! Show your work!

Show your work! Show your work! Show your work!



Name _____

Summer Review - Week # 6

Complete each of the problems below. Please show all of your work.



1) Find the mean, median, mode, and range of the following set of numbers: 2, 2, 2, 5

mean =

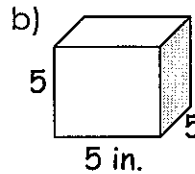
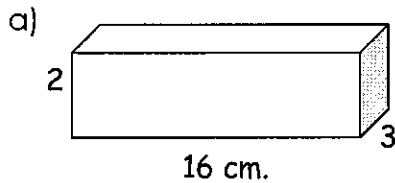
median =

mode =

range =



2) Find the volume of the figures:



V = _____

V = _____



3) Reduce each of the following fractions:

a) $\frac{20}{25} = \frac{\quad}{\quad}$

b) $\frac{21}{28} = \frac{\quad}{\quad}$

c) $\frac{22}{88} = \frac{\quad}{\quad}$

d) $\frac{23}{46} = \frac{\quad}{\quad}$

e) $\frac{24}{30} = \frac{\quad}{\quad}$

f) $\frac{25}{35} = \frac{\quad}{\quad}$

g) $\frac{26}{39} = \frac{\quad}{\quad}$

h) $\frac{27}{36} = \frac{\quad}{\quad}$

i) $\frac{28}{40} = \frac{\quad}{\quad}$

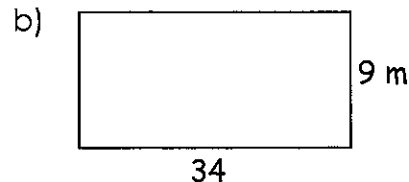
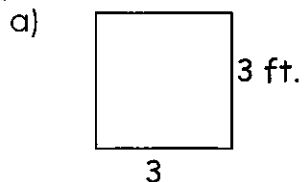
j) $\frac{29}{58} = \frac{\quad}{\quad}$

k) $\frac{30}{48} = \frac{\quad}{\quad}$

l) $\frac{31}{62} = \frac{\quad}{\quad}$



4) Find the perimeter and area of the figures:



P =

P =

A =

A =



Show your work! Show your work! Show your work!

Show your work! Show your work! Show your work!

5) Change the following fractions to mixed numbers:



a) $\frac{29}{3} = \text{---}$

b) $\frac{28}{5} = \text{---}$

c) $\frac{27}{6} = \text{---}$

d) $\frac{26}{5} = \text{---}$



e) $\frac{24}{5} = \text{---}$

f) $\frac{23}{4} = \text{---}$

g) $\frac{22}{3} = \text{---}$

h) $\frac{21}{2} = \text{---}$

6) Find the least common multiple (LCM) of the following sets of numbers:

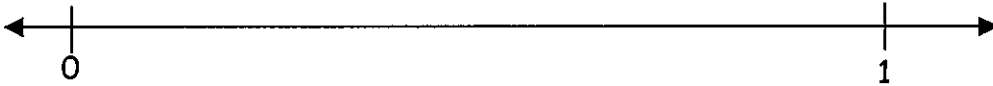
a) 5, 8

b) 6, 9

c) 7, 10

d) 8, 11

7) Put the following fractions on the number line where they belong: $\frac{3}{7}, \frac{2}{7}, \frac{5}{7}$



8) Find the number that corresponds with each of the following prime factorizations:

a) $2 \cdot 3^2$

b) $3 \cdot 5^2$

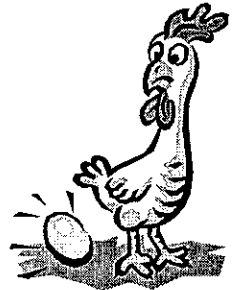
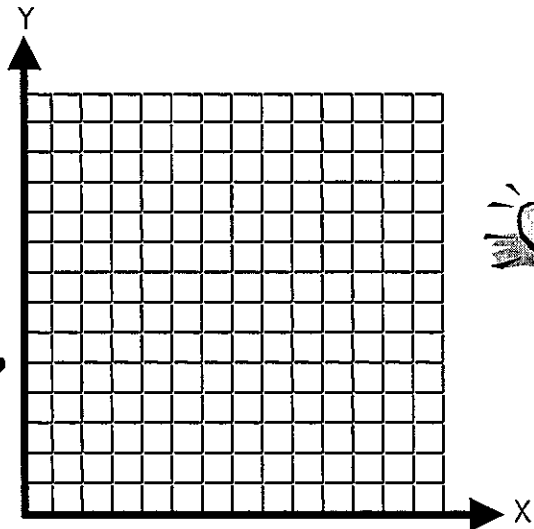
c) $5 \cdot 7^2$

d) $7 \cdot 11^2$

9) Graph each of the points.



X	Y
0	3
1	5
2	7
3	5
4	3
5	1
6	3
7	5



Show your work! Show your work! Show your work!

Show your work! Show your work! Show your work!



Summer Review - Week # **7**

Name _____

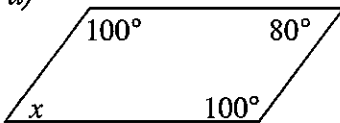


Complete each of the problems below. Please show all of your work.

1) Michael has to mow the lawn next week. What is the probability he will choose a day of the week that is spelled with a t?

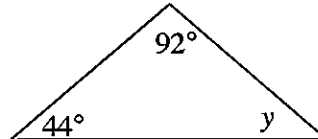
2) Find the missing angles:

a)



$x =$

b)



$y =$

3) Find the mean, median, mode, and range of the following set of numbers: 3, 3, 3, 7, 1, 1, 1, 2, 9

mean =

median =

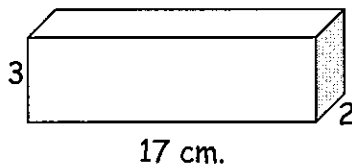
mode =

range =



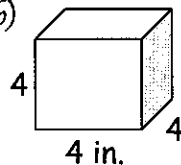
4) Find the volume of the figures:

a)

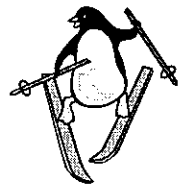


$V =$ _____

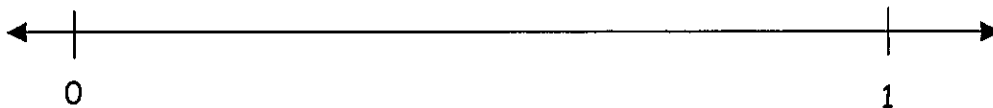
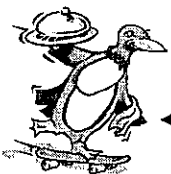
b)



$V =$ _____



5) Put the following fractions on the number line where they belong: $\frac{1}{5}$, $\frac{3}{5}$, $\frac{2}{5}$



Show your work! Show your work! Show your work!

Show your work! Show your work! Show your work!



6) Reduce each of the following fractions:

a) $\frac{8}{12} = \frac{\quad}{\quad}$

b) $\frac{10}{65} = \frac{\quad}{\quad}$

c) $\frac{16}{36} = \frac{\quad}{\quad}$

d) $\frac{18}{45} = \frac{\quad}{\quad}$

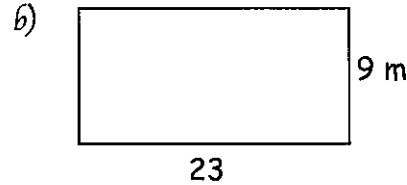
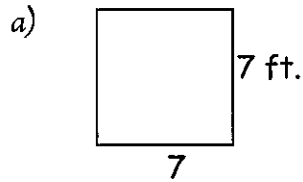
e) $\frac{22}{77} = \frac{\quad}{\quad}$

f) $\frac{24}{52} = \frac{\quad}{\quad}$

g) $\frac{26}{34} = \frac{\quad}{\quad}$

h) $\frac{28}{40} = \frac{\quad}{\quad}$

7) Find the perimeter and area of the figures:



P =

P =

A =

A =

8) Find the greatest common factor (GCF) of the following sets of numbers:

a) 40, 48

b) 30, 45

c) 32, 48

d) 36, 48

9) If $M = 52$, simplify each of the following:

a) $M + 7$

b) $M - 18$

c) $74 - M$

d) $2M$



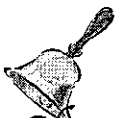
10) Change the following fractions to mixed numbers:

a) $\frac{38}{3} = \frac{\quad}{\quad}$

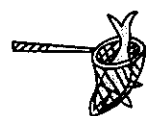
b) $\frac{39}{4} = \frac{\quad}{\quad}$

c) $\frac{41}{5} = \frac{\quad}{\quad}$

d) $\frac{43}{6} = \frac{\quad}{\quad}$



Show your work! Show your work! Show your work!

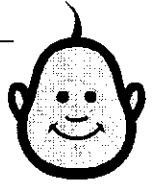


Show your work! Show your work! Show your work!

Name _____

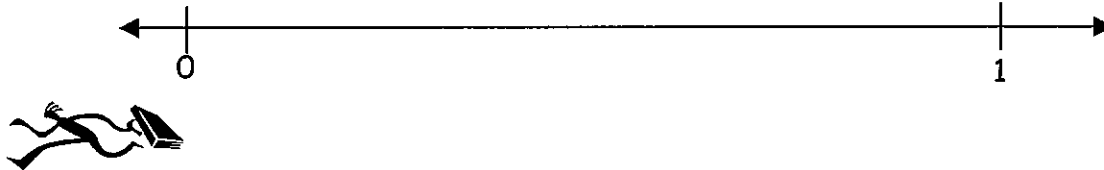


Summer Review - Week # 8



Complete each of the problems below. Please show all of your work.

1) Put the following fractions on the number line where they belong: $\frac{10}{11}$, $\frac{7}{11}$, $\frac{1}{11}$



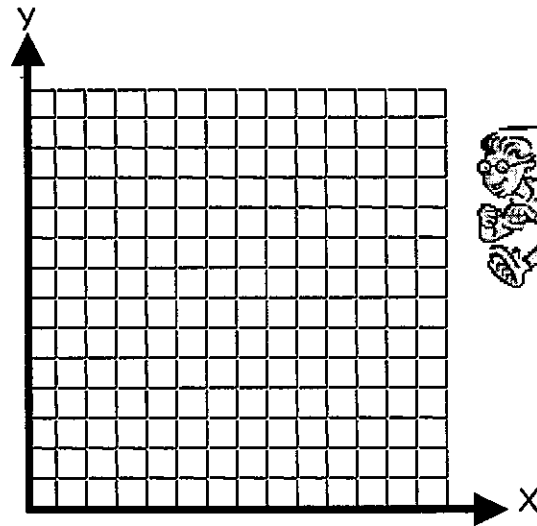
2) Find the prime factorization of each of the following numbers:

- a) 16
- b) 18
- c) 20
- d) 21
- e) 22
- f) 26
- g) 28
- h) 32

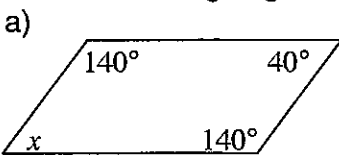
3) Graph each of the points.



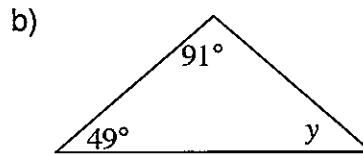
X	Y
0	4
1	5
2	6
3	7
4	8
5	7
6	1
7	2



4) Find the missing angles:



x =



y =



Show your work! Show your work! Show your work!

Show your work! Show your work! Show your work!

5) Find the greatest common factor (GCF) of the following sets of numbers:

a) 50, 54

b) 64, 72

c) 82, 94

d) 102, 110



6) If $M = 39$, simplify each of the following:

a) $M + 25$

b) $M - 28$

c) $71 - M$

d) $3M$

7) Change the following fractions to mixed numbers:

a) $\frac{87}{2} = \underline{\hspace{2cm}}$

b) $\frac{88}{3} = \underline{\hspace{2cm}}$

c) $\frac{89}{4} = \underline{\hspace{2cm}}$

d) $\frac{90}{7} = \underline{\hspace{2cm}}$



e) $\frac{91}{8} = \underline{\hspace{2cm}}$

f) $\frac{92}{9} = \underline{\hspace{2cm}}$

g) $\frac{93}{10} = \underline{\hspace{2cm}}$

h) $\frac{94}{11} = \underline{\hspace{2cm}}$

8) Find the least common multiple (LCM) of the following sets of numbers:

a) 7, 12

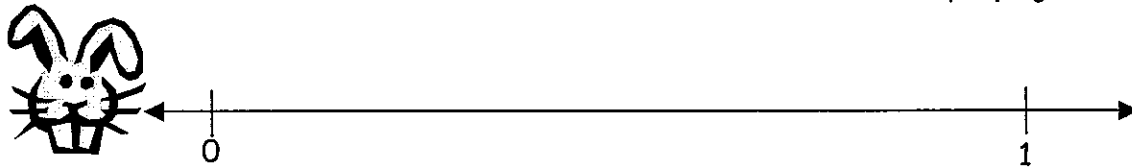
b) 2, 9

c) 4, 8

d) 6, 14



9) Put the following fractions on the number line where they belong: $\frac{3}{4}, \frac{1}{4}, \frac{2}{5}$



10) Find the number that corresponds with each of the following prime factorizations:

a) $2^3 \cdot 3$

b) $3^3 \cdot 5^2$

c) $2^5 \cdot 7$

d) $3^2 \cdot 7^2$

11) Ivan can either wear jeans, pants, or shorts to school. What is the probability he chooses either shorts or jeans?



Show your work! Show your work! Show your work!



Show your work! Show your work! Show your work!



Summer Review - Week # 9

Name _____

Complete each of the problems below. Please show all of your work.

1) Fill in the table with the corresponding fractions, decimals, and percents:

	Fractions	Decimals	Percents
a)	$\frac{3}{4}$		%
b)	$\frac{7}{25}$		%
c)	$\frac{1}{10}$		%
d)	—	.24	%

	Fractions	Decimals	Percents
j)	—	.12	%
k)	—	.99	%
l)	—		90%
m)	—		14%

2) Change the following mixed numbers to improper fractions:

a) $4\frac{2}{3} = \text{—}$

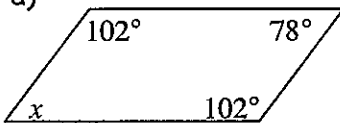
b) $6\frac{3}{4} = \text{—}$

c) $7\frac{4}{5} = \text{—}$

d) $8\frac{5}{6} = \text{—}$

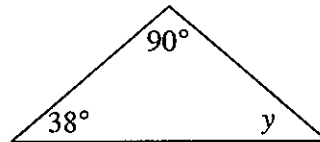
3) Find the missing angles:

a)



x =

b)



y =



4) Change the following fractions to mixed numbers:

a) $\frac{31}{2} = \text{—}$

b) $\frac{32}{3} = \text{—}$

c) $\frac{33}{4} = \text{—}$

d) $\frac{34}{5} = \text{—}$

e) $\frac{35}{6} = \text{—}$

f) $\frac{36}{7} = \text{—}$

g) $\frac{37}{8} = \text{—}$

h) $\frac{38}{9} = \text{—}$

5) If $M = 79$, simplify each of the following:

a) $M + 34$

b) $M - 58$

c) $132 - M$

d) $2M$

Show your work! Show your work! Show your work!

Show your work! Show your work! Show your work!

6) Reduce each of the following fractions:

a) $\frac{60}{65} = \frac{\quad}{\quad}$

b) $\frac{20}{55} = \frac{\quad}{\quad}$

c) $\frac{75}{100} = \frac{\quad}{\quad}$

d) $\frac{35}{100} = \frac{\quad}{\quad}$

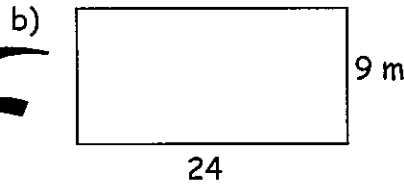
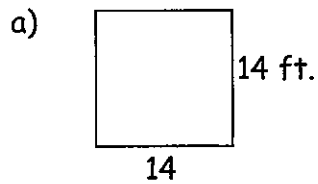
e) $\frac{40}{100} = \frac{\quad}{\quad}$

f) $\frac{15}{100} = \frac{\quad}{\quad}$

g) $\frac{1000}{2000} = \frac{\quad}{\quad}$

h) $\frac{30}{54} = \frac{\quad}{\quad}$

7) Find the perimeter and area of the figures:



P =

P =

A =

A =



8) Find the greatest common factor (GCF) of the following sets of numbers:

a) 72, 82

b) 34, 51

c) 42, 63

d) 46, 92

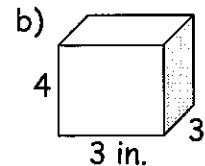
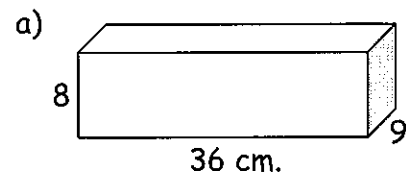
e) 15, 90

f) 28, 42

g) 9, 12

h) 15, 21

9) Find the volume of the figures:



V = _____

V = _____



Show your work! Show your work! Show your work!

Answer Key

Week #1

1) $\frac{2}{3}, \frac{2}{3}, \frac{2}{3}, \frac{2}{3}, \frac{2}{3}, \frac{6}{7}, \frac{1}{2}, \frac{4}{5}$ 2) 32 ft, 64 ft², 34 m, 60 m² 3) 1, 5, 2, 4 4) 16, 3, 5, 40

5) $3\frac{3}{7}, 6\frac{1}{2}, 1\frac{4}{5}, 1\frac{2}{5}$ 6) .16, 16%, .8, 80%, $\frac{3}{10}, 30\%, \frac{21}{50}, 42\%, \frac{14}{25}, 56\%, \frac{17}{25}, .68, \frac{17}{20}, .85$

7) $\frac{25}{8}, \frac{39}{7}, \frac{100}{11}, \frac{30}{7}$ 8) graph 9) $\frac{1}{3}$

Week #2

1) 70°, 42° 2) 7, 6.5, none, 3-12 or 9 3) 180 cm³, 336 cm³

4) $\frac{1}{9}, \frac{1}{10}, \frac{1}{12}, \frac{1}{11}, \frac{1}{4}, \frac{4}{5}, \frac{1}{5}, \frac{1}{7}, \frac{1}{4}, \frac{2}{5}, \frac{2}{3}, \frac{2}{5}$ 5) 36 ft, 81 ft², 38 ft, 78 ft² 6) 9, 4, 2, 1

7) 61, 26, 37, 162 8) $2\frac{7}{8}, 4\frac{2}{3}, 1\frac{8}{11}, 1\frac{1}{7}, 1\frac{8}{9}, 4\frac{3}{8}, 11\frac{2}{3}, 2\frac{1}{4}$ 9) 30, 56, 60, 60

10) 8.57, 7, 5, 5-18 or 13



Week #3

1) number line 2) $2 \cdot 3^2, 2^3 \cdot 3, 2 \cdot 19, 3^4$ 3) graph 4) $\frac{3}{7}$ 5) $\frac{2}{7}, \frac{8}{25}, \frac{9}{10}, \frac{4}{5}, \frac{7}{20}, \frac{2}{5}, \frac{12}{27}, \frac{3}{5}$

6) .25, 25%, .35, 35%, .7, 70%, $\frac{31}{100}, 31\%, \frac{22}{25}, 88\%, \frac{11}{100}, 11\%, \frac{39}{50}, .78, \frac{11}{50}, .22$ 7) $\frac{7}{5}, \frac{23}{10}, \frac{41}{12}, \frac{47}{11}$

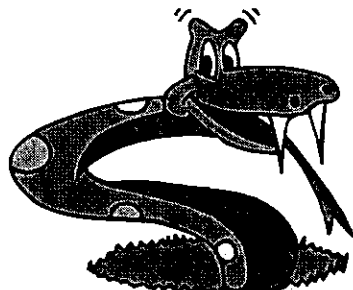
8) 102 cm³, 504 in³ 9) 48 ft, 144 ft², 46 m, 112 m²

Week #4

1) $2\frac{7}{10}, 3\frac{1}{5}, 1\frac{8}{13}, 1\frac{1}{4}$ 2) 36, 24, 36, 90 3) number line 4) $5^2, 2^2 \cdot 3^2, 7^2, 2^6$ 5) graph

6) $\frac{2}{3}$ 7) 60°, 91° 8) 6.29, 5, 9, 2-12 or 10 9) 924 cm³, 504 in³ 10) $\frac{6}{7}, \frac{5}{6}, \frac{1}{2}, \frac{1}{2}, \frac{4}{5}, \frac{5}{6}, \frac{3}{7}, \frac{1}{2}$

11) 12, 45, 175, 539



Week #5

1) $\frac{13}{14}, \frac{5}{9}, \frac{3}{10}, \frac{1}{4}, \frac{2}{3}, \frac{1}{3}, \frac{4}{15}, \frac{3}{4}$ 2) 8 ft, 4 ft², 44 m, 96 m² 3) 4, 2, 7, 10 4) 36, 15, 5, 54

5) $3\frac{1}{2}, 2\frac{2}{3}, 2\frac{1}{4}, 1\frac{2}{3}, 1\frac{4}{7}, 1\frac{1}{2}, 1\frac{4}{9}, 1\frac{2}{5}$ 6) 42, 84, 16, 36 7) number line 8) 5·7, 3²·5, 5·11, 5·13

9) graph 10) $\frac{1}{4}$ 11) 7.875, 6, 4, 1-17 or 16

Week #6

1) 2.75, 2, 2, 2-5 or 3 2) 96 cm³, 125 in² 3) $\frac{4}{5}, \frac{3}{4}, \frac{1}{4}, \frac{1}{2}, \frac{4}{5}, \frac{5}{7}, \frac{2}{3}, \frac{3}{4}, \frac{9}{10}, \frac{1}{2}, \frac{5}{8}, \frac{1}{2}$

4) 12 ft, 9 ft², 86 m, 306 m² 5) $9\frac{2}{3}, 5\frac{3}{8}, 4\frac{1}{2}, 5\frac{1}{5}, 4\frac{4}{5}, 5\frac{3}{4}, 7\frac{1}{3}, 10\frac{1}{2}$ 6) 40, 18, 70, 88

7) number line 8) 18, 75, 245, 847 9) graph

**Week #7**

1) $\frac{3}{7}$ 2) 80°, 44° 3) 3.33, 3, 1 and 3, 1-9 or 8 4) 102 cm³, 64 in³ 5) number line

6) $\frac{2}{3}, \frac{2}{13}, \frac{4}{9}, \frac{2}{5}, \frac{2}{7}, \frac{4}{9}, \frac{13}{17}, \frac{7}{10}$ 7) 28 ft, 49 ft², 64 m, 207 m² 8) 8, 15, 16, 12

9) 59, 34, 22, 104 10) $12\frac{2}{3}, 9\frac{3}{4}, 8\frac{1}{5}, 7\frac{1}{6}$

Week #8

1) number line 2) 2⁴, 2·3², 2²·5, 3·7, 2·11, 2·13, 3·7, 2⁵ 3) graph 4) 40°, 40° 5) 2, 8, 2, 2

6) 64, 11, 32, 117 7) $43\frac{1}{2}, 29\frac{1}{3}, 22\frac{1}{4}, 12\frac{6}{7}, 11\frac{3}{8}, 10\frac{2}{9}, 9\frac{3}{10}, 8\frac{6}{11}$ 8) 84, 18, 8, 42 9) number line

10) 24, 675, 224, 441 11) $\frac{2}{3}$

**Week #9**

1) .75, 75%, .28, 28%, .1, 10%, $\frac{6}{25}, 24%, \frac{3}{25}, 12%, \frac{99}{100}, 99%, \frac{9}{10}, .9, \frac{7}{50}, .14$ 2) $\frac{14}{3}, \frac{27}{4}, \frac{39}{5}, \frac{53}{6}$

3) 78°, 52° 4) $15\frac{1}{2}, 10\frac{2}{3}, 8\frac{1}{4}, 6\frac{4}{5}, 5\frac{5}{6}, 5\frac{1}{7}, 4\frac{5}{8}, 4\frac{2}{9}$ 5) 113, 21, 53, 158

6) $\frac{12}{13}, \frac{4}{11}, \frac{3}{4}, \frac{7}{20}, \frac{2}{5}, \frac{3}{20}, \frac{1}{2}, \frac{5}{9}$ 7) 56 ft, 196 ft², 66 m, 216 m² 8) 2, 17, 21, 46, 15, 14, 3, 3

9) 2592 cm³, 36 in³

Name : _____

Score : _____

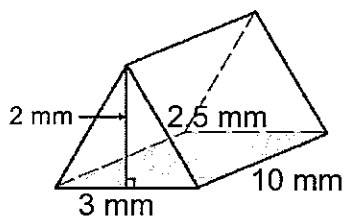
Teacher : _____

Date : _____

Surface Area of Prisms and Pyramids

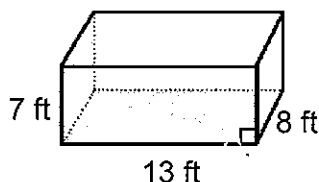
Find the surface area of each figure. Round answers to the nearest hundredth, if necessary.

1)



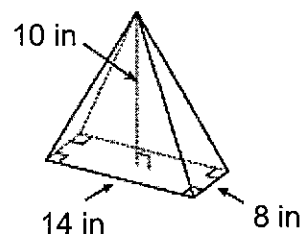
Surface Area: _____

2)



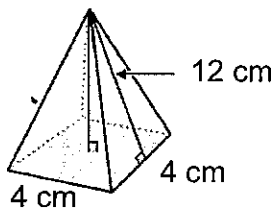
Surface Area: _____

3)



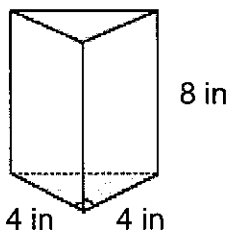
Surface Area: _____

4)



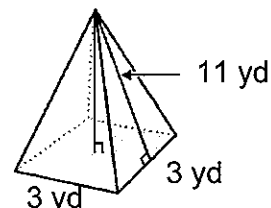
Surface Area: _____

5)



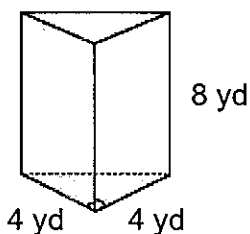
Surface Area: _____

6)



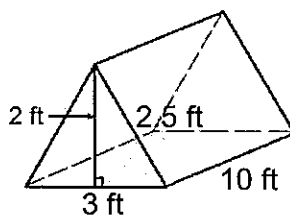
Surface Area: _____

7)



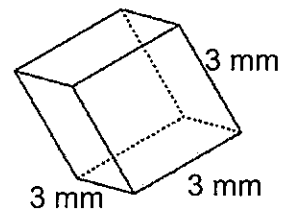
Surface Area: _____

8)



Surface Area: _____

9)



Surface Area: _____

Name : _____

Score : _____

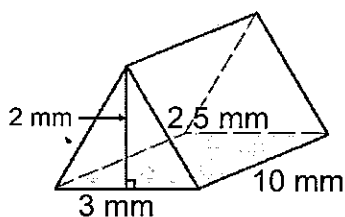
Teacher : _____

Date : _____

Surface Area of Prisms and Pyramids

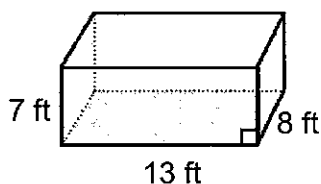
Find the surface area of each figure. Round answers to the nearest hundredth, if necessary.

1)



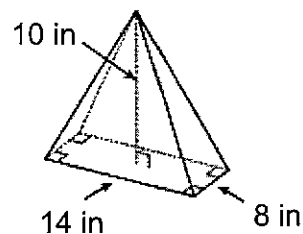
Surface Area: 86.00 mm²

2)



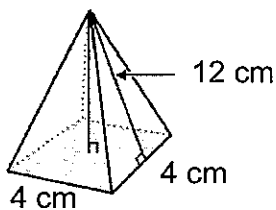
Surface Area: 502.00 ft²

3)



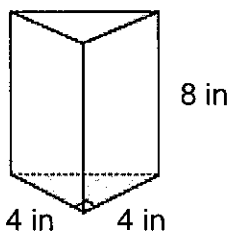
Surface Area: 360.44 in²

4)



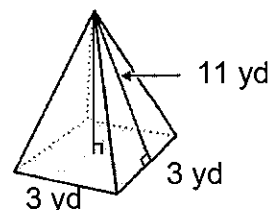
Surface Area: 112.00 cm²

5)



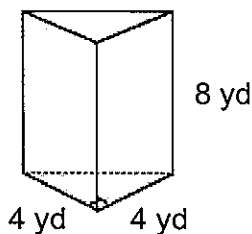
Surface Area: 125.25 in²

6)



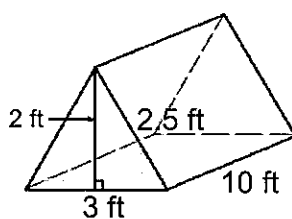
Surface Area: 75.00 yd²

7)



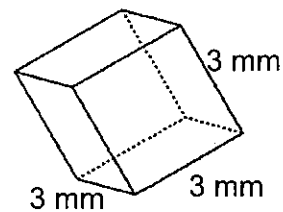
Surface Area: 125.25 yd²

8)



Surface Area: 86.00 ft²

9)



Surface Area: 54.00 mm²

Name : _____

Score : _____

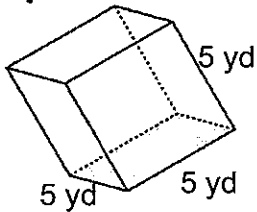
Teacher : _____

Date : _____

Volume of Prisms, Pyramids, Cylinders, and Cones

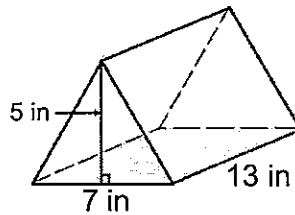
Find the volume of each figure. Round answers to the nearest hundredth, if necessary.

1)



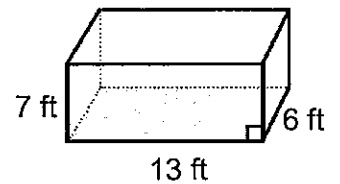
Volume: _____

2)



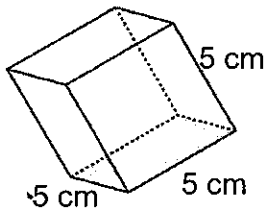
Volume: _____

3)



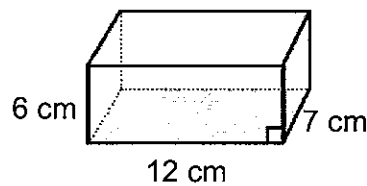
Volume: _____

4)



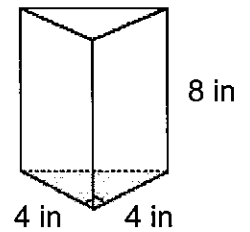
Volume: _____

5)



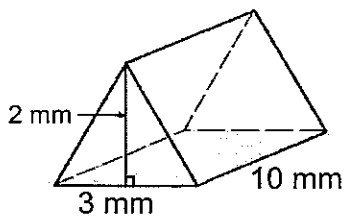
Volume: _____

6)



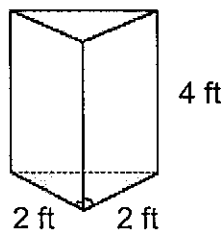
Volume: _____

7)



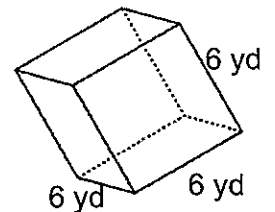
Volume: _____

8)



Volume: _____

9)



Volume: _____



Name : _____

Score : _____

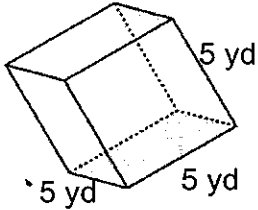
Teacher : _____

Date : _____

Volume of Prisms, Pyramids, Cylinders, and Cones

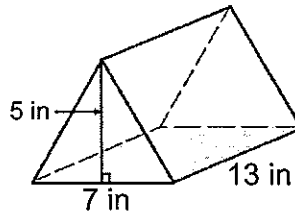
Find the volume of each figure. Round answers to the nearest hundredth, if necessary.

1)



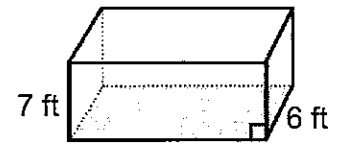
Volume: 125.00 yd³

2)



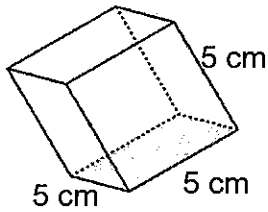
Volume: 227.50 in³

3)



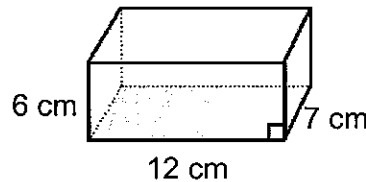
Volume: 546.00 ft³

4)



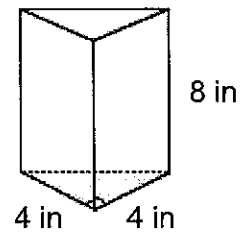
Volume: 125.00 cm³

5)



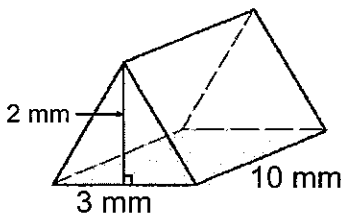
Volume: 504.00 cm³

6)



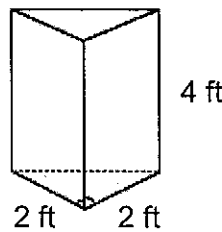
Volume: 64.00 in³

7)



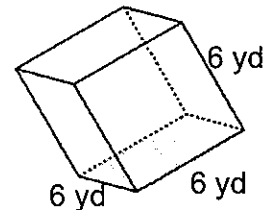
Volume: 30.00 mm³

8)



Volume: 8.00 ft³

9)



Volume: 216.00 yd³

