### **Mathematics 9 Learning Guide Package**



Our goal at Frances Kelsey is to help you become familiar with the material in Mathematics 9.

- Keep in contact with your marking teacher.
- Work with a partner.
- Work on Math in the Math Work Area!

#### **Steps for Success:**



#### **READ THROUGH**

Before each math class be sure to read through the pages listed in the Learning Guide.



#### SIT THROUGH

During designated math classes be sure to attend and listen to the seminar. Ask Questions



#### **WORK THROUGH**

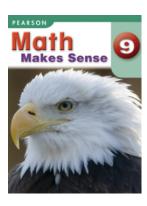
Work through the listed questions, worksheet and quizzes. Be sure to self correct your work.

#### **YOU NEED:**

#### **TEXTBOOK**

You can sign out a Textbook from the Science Kiosk.

SCIENTIFIC CALCULATOR





#### LG 0 - COURSE OUTLINE

#### Listed below are the topics of the 18 Learning Guides that are taught.

#### **TOPICS:**

• L	.G 1/2	Word Wall & Measurement Conversions
• L	.G 3/4	Powers & Exponent Laws
• L	.G 5/6	Rational Numbers
• L	.G 7/8	Linear Relations
• L	.G 9/10	Polynomials
• L	.G 11/12	Linear Equations
• L	.G 13/14	Similarity & Triangles
• L	.G 15	Financial Literacy
• L	.G 16	Probability & Statistics
• L	.G 17	Logic
• L	.G 18	Math in the Real World

"Don't worry about the difficulties in mathematics; I can assure you that mine are still greater" A. Einstein

#### **HOW TO BE SUCCESSFUL:**

- o Arrive to class prepared and on time.
- o Work with a partner.
- o Ask for help as soon as you need it. Don't put off to another day!!
- o Be an active learner. Participate in discussions and activities.
- o Use Work Blocks and homework time to complete assignments.
- Study/review for tests.
- o Stay up to date with the course. Mandatory test dates are in effect.

Come for	<u>Math Help</u> ~	ΙBΑ	

#### EVALUATION

- · Assignments / Guide Work 20%
- Tests / Quizzes 80%

Procrastination makes easy things hard, hard things harder. - Mason Cooley

#### LG 1 & 2 - Word Wall & Linear Measurement Conversions

#### What will I have to do for LG 1?

#### 1. Introduction

Logic

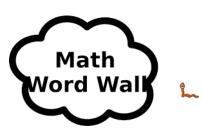
**Word Wall** 

**Listen:** To seminar!

☐ Do Word Wall Activity (see hand out)







#### What will I have to do for LG 2?

#### 2. <u>Linear Measurement</u>

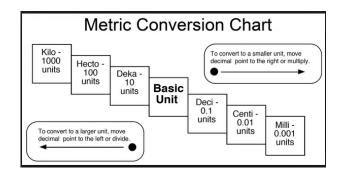
Listen: Seminar

Discuss & Practice:

Do WORKSHEET #1 - Linear Measurement: Metric and Imperial
Do <b>WORKSHEET #2</b> - Linear Measurement and Metric Conversions
Do WORKSHEET #3 - Converting Between Metric Units
Do WORKSHEET #4 – Math for Trades
Find a partner and complete the "Linear Measurement Lab"

#### **In Class Activity**

Do: Linear Measurement Lab





#### What am I going to learn in LG 3?

#### 2.1 What is a Power?

Identify the base of each power, then evaluate.

- i) 5<sup>3</sup>
- $ii)_{(-11)^2}$
- iii) -2<sup>5</sup>

Write as a power.

- i) 6 X 6 X 6 X 6
- ii) 8
- iii) -2 X -2 X -2

Write as a repeated multiplication and in standard form.

- i) 9<sup>3</sup>
- ii)\_(-3)4
- iii) -45

#### 2.2 Powers of Ten and the Zero Exponent.

Evaluate each expression.

- 7°
- ii) -9°

Write 4325 using powers of 10. (hint: place value chart)

#### 2.3 Order of Operations with Powers

- i)  $4^2 + 3^3$
- ii)  $(4-5)^2$
- iii)  $2(3+4)^2-5^2$

# Exponents 5 3 5 × 5 × 5 = 125 base: the number multipled repeatedly exponent: power tells how many times to multiply

#### What will I have to do for LG 3?

#### 2.1 What is a Power?

**Read:** P. 52 - 55

- **Do:** P. 55 4 9, 11, 12
  - P. 56 13, 14, 16 19
  - P. 57 20, 21
- Be sure to <u>always</u> check all your answers with the answers at the back of Textbook.

#### 2.2 **Powers of Ten and Zero Exponents**

**Read:** P. 58 - 61

- **Do:** P. 61 4, 5, 6
  - P. 61 7 10, 12, 13
  - P. 62 15



#### 2.3 Orders of Operations with Powers

**Read:** P. 63 - 65

- **□ Do:** P. 66 6 − 11
  - P. 67 14 18
  - P. 68 20 22
  - P. 68 24ab, 27ab

#### **Mid-Unit Review**

- $\square$  **Do:** P. 69 1-6 & 8-10
- Do the LG 3 quiz found in your "Quiz Package" and see your teacher to get it marked.

#### What am I going to learn in LG 4?

#### 2.4 Exponent Laws I

Write each expression as a power.

i) 
$$7^4 \times 7^2$$

i) 
$$7^4 \times 7^2$$
 ii)  $(-3)^3 \times (-3)^5$  iii)  $6^9 \div 6^4$ 

iii) 
$$6^9 \div 6^9$$

Evaluate each.

i) 
$$2^3 \times 2$$

*i*) 
$$2^3 \times 2^2$$
 *ii*)  $(-5)^6 \div (-5)^4$ 

Evaluate.

$$2^4 \times 2 - 2^5 \div 2^4$$

#### 2.5 Exponent Laws II

Write each as a power.

i) 
$$(5^3)^{\frac{1}{2}}$$

i) 
$$(5^3)^2$$
 ii)  $[(-8)^4]^3$  iii)  $-(2^7)^3$ 

iii) 
$$-(2^{7})^{3}$$

Simplify, then evaluate each.

i) 
$$\left(\frac{42}{7}\right)^2$$

i) 
$$\left(\frac{42}{7}\right)^2$$
 ii)  $\left(2^3 \times 2\right)^2 - \left(3^7 \div 3^5\right)^3$ 

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#### What will I have to do for LG 4?

#### 2.4 **Exponent Laws I**

**Read:** P. 73 - 76

P. 77 
$$6 - 11, 13, 15, 17$$

4,5

#### 2.5 **Exponent Laws II**

**Read:** P. 79 - 83

P. 84 
$$9 - 12, 14 - 16, 19$$

## **Laws of Exponents**

$$a^{1} = a$$

$$a^{0} = 1$$

$$a^{-n} = \frac{1}{a^{n}}$$

$$(a^{m})^{n} = a^{mn}$$

$$a^{m}a^{n} = a^{m+n}$$

$$\frac{a^{m}}{a^{n}} = a^{m-n}$$

$$(ab)^{m} = a^{m}b^{m}$$

$$\left(\frac{a}{b}\right)^m = \frac{a^m}{b^m}$$

#### Review

If you want more Review > Do pg. 90 "Practice Test"

**Go Over** Formative Quiz from LG 3

See your teacher to do the LG 3/4 Summative Test

$$2 \times 2 = 2^{2} = 4$$

$$2 \times 2 \times 2 = 2^{3} = 8$$

$$2 \times 2 \times 2 \times 2 = 2^{4} = 16$$

$$2 \times 2 \times 2 \times 2 \times 2 = 2^{5} = 32$$

$$2 \times 2 \times 2 \times 2 \times 2 \times 2 = 2^{6} = 64$$

$$2 \times 2 \times 2 \times 2 \times 2 \times 2 = 2^{7} = 128$$

#### What am I going to learn in LG 5?

#### 3.1 What is a Rational Number?

Order the following rational numbers from least to greatest. Show them on a number line.

$$3.12, -\frac{4}{3}, 0.9, -\frac{1}{2}, -0.4$$

Write 3 rational numbers between each pair of numbers.

ii) 
$$\frac{1}{5}$$
,  $\frac{7}{10}$ 

i) -3.5, -3.1 ii) 
$$\frac{1}{5}$$
,  $\frac{7}{10}$  iii)  $-\frac{5}{2}$ ,  $-\frac{3}{2}$ 

#### 3.2 Adding Rational Numbers.

Determine each sum.

$$i) -1.2 + (-0.4)$$

*iii*) 
$$\frac{3}{4} + \frac{7}{8}$$

*iii*) 
$$\frac{3}{4} + \frac{7}{8}$$
 *iv*)  $-4\frac{5}{6} + \left(-1\frac{5}{12}\right)$ 

A January morning temperature was -6.4°C. The temperature dropped 2.1°C by the end of the day. What was the temperature at the end of the day?

#### 3.3 Subtracting Rational Numbers

Determine each difference.

*iii*) 
$$-3\frac{2}{3} - \frac{1}{4}$$

*iii*) 
$$-3\frac{2}{3} - \frac{1}{4}$$
 *iv*)  $\frac{12}{7} - \left(-\frac{4}{5}\right)$ 

#### What will I have to do for LG 5?

#### 3.1 What is a Rational Number?

**Read:** P. 94 - 100

**Do:** P. 101 5 - 11

P. 102 13, 14ace, 15 – 19

P. 103 22, 24

P. 103 26, 27

Be sure to <u>always</u> check all your answers with the answers at the back of Textbook.

#### 3.2 **Adding Rational Numbers**

**Read:** P. 106 - 110

**Do:** P. 111 3 - 7

> P. 112 11, 13, 15, 18, 19

P. 113 20

#### 3.3 **Subtracting Rational Numbers**

**Read:** P. 114 - 118

**□ Do:** P. 119 3 − 5

P. 119 6 – 9

P. 120 11 – 16

#### **Mid-Unit Review**

**Do:** P. 121 1 – 10

Do the LG 5 quiz found in your "Quiz Package" and see your teacher to get it marked.

#### What am I going to learn in LG 6?

#### 3.4 Multiplying Rational Numbers

Determine each product.

i) 
$$3.6 \times (-0.8)$$

$$ii$$
)  $(-4.2)(-2.7)$ 

iii) 
$$\left(-\frac{2}{5}\right)\left(\frac{3}{4}\right)$$

iii) 
$$\left(-\frac{2}{5}\right)\left(\frac{3}{4}\right)$$
 iv)  $2\frac{1}{3}\times\left(-4\frac{1}{2}\right)$ 

#### 3.5 Dividing Rational Numbers

Determine each quotient.

i) 
$$3.6 \div (-0.8)$$

*ii*) 
$$(-4.2) \div (-2.7)$$

$$(iii)$$
  $\left(-\frac{2}{5}\right) \div \left(\frac{3}{4}\right)$   $(iv)$   $2\frac{1}{3} \div \left(-4\frac{1}{2}\right)$ 

*iv*) 
$$2\frac{1}{3} \div \left(-4\frac{1}{2}\right)$$

#### 3.6 Order of Operations with Rational Numbers

Evaluate each expression.

i) 
$$-1.3 \div (0.5) - [7.5 + (-3.9)]$$

*ii*) 
$$\left(-\frac{2}{5}\right)\left(\frac{1}{4}\right) - \left(-\frac{3}{7}\right) \div \frac{1}{3}$$

#### RATIONAL NUMBERS INTEGERS 13 -2 -2 Positive whole Numbers Positive whole Numbers Negative whole Numbers Negative whole Numbers Zero Fractions Decimals

#### What will I have to do for LG 6?

#### 3.4 **Multiplying Rational Number?**

**Read:** P. 123 - 127

**Do:** P. 127 3 - 7

> 8 - 12, 15P. 128

P. 129 16

#### 3.5 **Dividing Rational Number?**

**Read:** P. 130 - 134

**Do:** P. 134 3 - 5

P.  $135 \quad 6 - 9$ 

P. 136 16 - 18, 21

#### 3.6 **Order of Operation with Rational** Number?

**Read:** P. 137 - 139

**Do:** P. 140 3.4 - 8

> P. 141 10 - 13

19, 21 P. 142

#### **Review**

**Do:** P. 144 11, 12

> 14, 16, 18, 19, 21, 23 P. 145

If you want more Review > Do pg. 146 "Practice Test"

**Go Over** Formative Quiz from LG 5

#### See your teacher to do the LG 5/6 Summative Test

**Rational Numbers:**  $Q = \left\{ \frac{a}{b} \mid a, b \in I, b \neq 0 \right\}$ 

#### What am I going to learn in LG 7?

#### 4.1 Writing Equations to Describe Patterns

Determine an equation that relates the number of circles, C, to the figure number, n.









The pattern in this table continues. Write an equation that relates the number of squares to the figure number.

Figure Number, f	1	2	3	4	5
Number of Squares, s	46	42	38	34	30

#### 4.2 Linear Relations

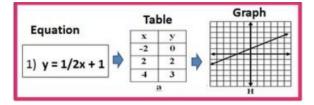
a) Create a table of values for the linear relation  $y = \frac{1}{2}x - 1$ . Use -4, -2, 0, 2, 4 for values of x.

x	-4	-2	0	2	4	
у						

#### 4.3 Another Form of Linear Relation

Which equation describes a horizontal line?

- *i*) x + 9 = 2
- ii) y + x = 3
- iii) y x = 0
- iv) y + 2 = 9



#### What will I have to do for LG 7?

#### 4.1 <u>Writing Equations to Describe</u> Patterns

**Read:** P. 154 - 1158

**□ Do:** P. 159 4 − 9

P. 160 11, 12, 14, 16, 17

P. 162 19, 20

Be sure to <u>always</u> check all your answers with the answers at the back of Textbook.

#### 4.2 <u>Linear Equations</u>

Read: P. 164 - 169

**Do:** P. 170 4 – 10

P. 172 12, 13

P. 173 18

#### **4.3** Subtracting Rational Numbers

**Read:** P. 174 - 177

**Do:** P. 178 4 - 11

P. 180 15, 18, 21

#### **Mid-Unit Review**

**□ Do:** P. 181 1 − 7

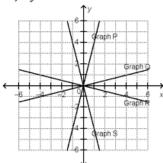
Do the LG 7 quiz found in your "Quiz Package" and see your teacher to get it marked.

#### What am I going to learn in LG 8?

#### 4.4 Matching Equations and Graphs

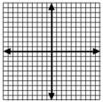
Match each equation with a graph on the grid below.

- i) y = -0.25x
- ii) y = 4x
- iii) y = -4x
- iv) y = 0.25x



#### 4.GP Graphing Linear Functions

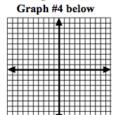
1. Plotting points and their quadrants. (3, -1)

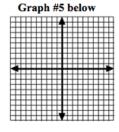


2. Finding slope by a graph.



- 3. Finding slope by two points (2, 5) & (-4, 0)
- 4. Creating a table of values to graph 2x 3y = 6.
- 5. Using the 0 0 Table to find intercepts: x + 2y = 4.





#### What will I have to do for LG 8?

#### 4.4 <u>Matching Equations and Graphs?</u>

**Read:** P. 183 - 187

**Do:** P. 188 3 – 9, 12 P. 190 13



#### **4.GP**

#### **Graphing Package**

#### See your teacher to receive Graphing Package

Be sure to check all your answers with the answers at the back of Package.

#### **Review**

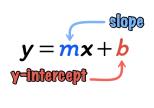
**Do:** P. 202 11 - 13

If you want more Review

- > Do pg. 204 "Practice Test"
- > Be sure to look over your "Graphing Package" before test as well.

**Go Over** Formative Quiz from LG 7

☐ See your teacher to do the LG 7/8 Summative Test



#### What am I going to learn in LG 9?

#### 5.1 Modelling Polynomials

- a) Match each polynomial with its corresponding algebra tile model.
- b) Which polynomials are monomial, binomial or trinomial?
- i)  $3a^2 6$
- ii)  $-4c^2 + 6c 2$

Model A



Model B



#### 52 Like Terms and Unlike Terms

Combine like terms. Sketch algebra tiles if it helps.

- a)  $2m-4+3m+m^2+6$
- b)  $3x^2 + x x 4 + 3x^2$

#### 5.3 Adding Polynomials

Add.

- a) (5x+2)+(x-2)
- b)  $(3n^2-n-2)+(-2n^2+4n-1)$

#### 5.4 Subtracting Polynomials

Subtract.

- a) (2x-4)-(x+7)
- b)  $(y^2 + 2y 5) (2y^2 y + 8)$

#### What will I have to do for LG 9?

#### 5.1 Modelling Polynomials

**Read:** P. 210 - 213

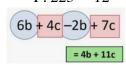
**Do:** P. 214 4 – 9, 11, 12, 13 P. 216 19, 20

Be sure to <u>always</u> check all your answers with the answers at the back of Textbook.

#### 5.2 Like Terms & Unlike Terms

**Read:** P. 217 - 221

☐ **Do:** P. 222 4 − 8, P. 223 12 − 14ace, 22



#### 5.3 Adding Polynomials

Read: P. 226 - 228

**Do:** P. 228 3, 5 - 7

P. 229 8, 9ace, 10, 11ace

P. 230 15ace, 17ac

#### 5.4 **Subtracting Polynomials**

**Read:** P. 232 - 234

**Do:** P. 235 8, 13, 15, 16, 17

#### **Mid-Unit Review**

□ **Do:** P. 237 1 − 12

Do the LG 9 quiz found in your "Quiz Package" and see your teacher to get it marked.

#### What am I going to learn in LG 10?

#### 5.5 Multiplying & Dividing a Polynomial by Constant

Multiply or Divide.

a) 
$$4(2s-1)$$

a) 
$$4(2s-1)$$
 b)  $-2(3x^2-7x+1)$ 

c) 
$$\frac{18m-12}{3}$$

c) 
$$\frac{18m-12}{3}$$
 d)  $\frac{20x^2+24x-4}{4}$ 

Write the multiplication sentence modelled by this set of algebra tiles. Determine the product.



#### 

#### 5.6 Multiplying & Dividing a Polynomial by Monomial

Determine each quotient.

a) 
$$4s(2s-1)$$

a) 
$$4s(2s-1)$$
 b)  $-2x(3x^2-7x+1)$ 

c) 
$$\frac{18m-12}{3m}$$

c) 
$$\frac{18m-12}{3m}$$
 d)  $\frac{20x^2+24x-4}{4x}$ 



#### Rewrite as

$$\frac{30k^2 - 18k}{-6k} = \frac{30k^2}{-6k} + \frac{-18k}{-6k}$$

#### What will I have to do for LG 10?

#### 5.5 **Multiplying & Dividing a Polynomial** by a Constant

**Read:** P. 241 - 245

P. 
$$248 22 - 24$$

#### **5.6 Multiplying & Dividing a Polynomial** by a Monomial

**Read:** P. 249 - 254

#### **Review**

#### If you want more Review > Do pg. 262 "Practice Test"

Go Over Formative Quiz from LG 9

See your teacher to do the LG 9/10 Summative Test

#### What am I going to learn in LG 11?

#### 6.1 Solving Equations by Using Inverse Operations

For each statement below, write then solve an equation to determine each number.

- a) Four times a number is -1.2
- b) A number divided by 5 is 2.5

Solve then verify each equation.

a) 
$$2.2m - 1.6 = -16.4$$

b) 
$$\frac{w}{4} + 5 = 1.2$$

c) 
$$10.4 = 2(2.5 + x)$$

#### 6.2 Solving Equations by Using Balance Strategies

Solve each equation.

a) 
$$-10a = 15 - 5a$$

b) 
$$3-2x=3x+13$$

c) 
$$3.4 = \frac{6.8}{r}$$

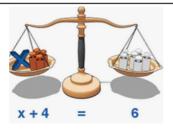
Two Bus Companies are considered for a Hockey road trip.

Bus Co. X costs \$40 per person.

Bus Co. Y costs \$500, plus \$30 per person.

Determine the number of people for which the bus will cost the same to take this road trip.

- a) Model this problem with an equation.
- b) Solve the problem.
- c) Verify the solution.



#### What will I have to do for LG 11?

#### 6.1 <u>Solving Equations by Using Inverse</u> <u>Operations</u>

**Read:** P. 266 – 271

Do: P. 271 5, 8ace, 9 - 11 P. 273 16, 18ace P. 274 20, 21, 24

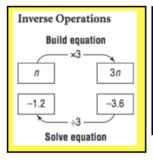
Be sure to <u>always</u> check all your answers with the answers at the back of Textbook.

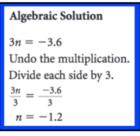
## **Solving Equations by Using Balance Strategies**

Read: P. 276 - 280

Do: P. 281 8, 9, 10ace, 11ace, 12, 13 P. 282 17, 19 P. 283 21 – 23

#### Two Methods to Solve Linear Equations



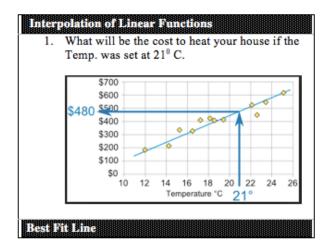


#### **Mid-Unit Review**

**□ Do:** P. 286 1 − 8

Do the LG 11 quiz found in your "Quiz Package" and see your teacher to get it marked.

#### What am I going to learn in LG 12?



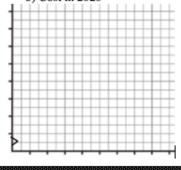
 Plot data on a Grid and then draw a "Best Fit Line" so you can examine the data to answer questions.

#### NHL Hockey Ticket Prices

Year		2000	2004	2008	2012	2016		
	Avg. Price	45	58	63	71	88		

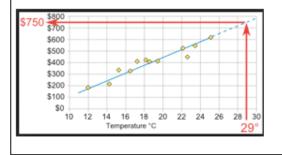
a) Cost in 2010

b) Cost in 2020



#### Extrapolation of Linear Functions

2. What will be the cost to heat your house if the Temp. was set at  $29^{\circ}$  C.



#### What will I have to do for LG 12?

#### 4.5 <u>Using Graphs to Estimate Values</u>

**Read:** P. 191 - 195

**□ Do:** P. 196 4 − 7

P. 197 8, 9, 13

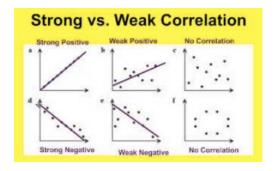
P. 198 15

## W.S. <u>Statistics: Scatter Plots & Line of Best Fit</u>

**Listen:** To seminar!

Do: Worksheet #1

**Scatter Plots & Correlations** 



☐ **Do:** Worksheet #2 **Line of Best Fit** 

Do: Worksheet #3

Combination of Scatter Plots, Correlations & Line of Best Fit

#### **Review**

**Do:** P. 203 14 - 17

If you want more Review > Do pg. 204 "Practice Test" #5 only

**Go Over** Formative Quiz from LG 11

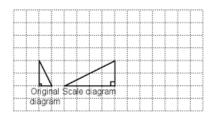
☐ See your teacher to do the LG 11/12 Summative Test

#### LG 13 & 14 – Similarity & Triangles

#### What am I going to learn in LG 13?

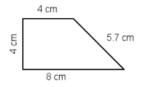
#### 7.1 Scale Diagrams & Enlargements

1. Determine the scale factor for this scale drawing.



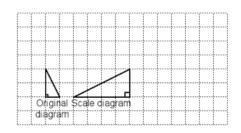
 An enlargement of the shape below is made using a scale factor of 2.

Determine the side lengths of the enlargement.



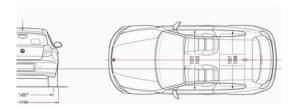
#### 7.2 Scale Diagrams & Reductions

1. Determine the scale factor for this scale drawing.



A circle has diameter 20cm. The diameter of the reduction is 5cm.

Determine the scale factor.



#### What will I have to do for LG 13?

#### 7.1 <u>Scale Diagrams & Enlargement</u>

**Read:** P. 319 – 322

**Do:** P. 323 4 - 8 P. 324 12, 14

Be sure to <u>always</u> check all your answers with the answers at the back of Textbook.

#### 7.2 Scale Diagrams & Reductions

**Read:** P. 326 - 328

**Do:** P. 329 4 - 9 P. 330 11, 14



#### **Mid-Unit Review**

**□ Do:** P. 352 1 − 4

☐ Do the LG 13 quiz found in your "Quiz Package" and see your teacher to get it marked.

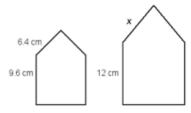
#### What am I going to learn in LG 14?

#### 7.3 Similar Polygons

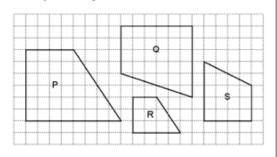
1. Calculate the value of x in this proportion:

$$\frac{x}{3} = \frac{10}{7}$$

2. These two pentagons are similar. Determine the value of x.

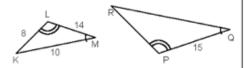


3. Identify similar quadrilaterals.

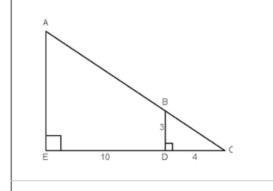


#### 7.4 Similar Triangles

 These triangles are similar. Determine the length of QR to the nearest tenth.



Determine the length of AE in this pair of similar triangles.



#### What will I have to do for LG 14?

#### 7.3 <u>Similar Polygons</u>

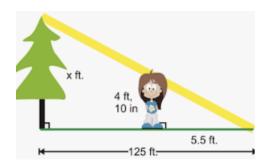
**Read:** P. 335 - 340

**Do:** P. 341 4 - 10 P. 342 11, 13

#### 7.4 Similar Triangles

**Read:** P. 344 - 348

Do: P. 349 4 – 6 P. 350 7, 9, 11 P. 351 12, 13, 15



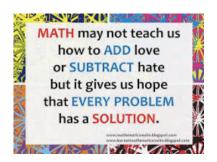
#### **Review**

 $\square$  **Do:** P. 352 5 – 7

If you want more Review > Do pg. 380 "Practice Test" #1 & 2

Go Over Formative Quiz from LG 13

☐ See your teacher to do the LG 13/14 Summative Test



#### **LG 15 – Financial Literacy**

#### **LG 16 – Probability & Statistics**

#### What am I going to learn in LG 15?



What will I have to do for LG 15?

## Finances and Budgeting Assignment See your teacher to receive Assignment

Be sure to answer all questions thoroughly. When you have completed the assignment hand in to your teacher.

**NO Summative Test** 

#### What will I have to do for LG 16?

#### 9.1 **Probability in Society**

**Read:** P. 425 - 427

**□ Do:** P. 427 3 − 6

P. 428 8, 9, 11

P. 429 14

## 9.2 Potential Problems with Collecting Data

**Read:** P. 432 - 434

**□ Do:** P. 435 3 − 8

P. 436 10, 15

#### 9.3 <u>Use Samples & Populations to</u> Collect Data

**Read:** P. 438 - 440

**Do:** P. 440 3 - 6



#### 9.4 Selecting a Sample

**Read:** P. 446 – 447

 $\square$  **Do:** P. 448 3 – 6

P. 449 12

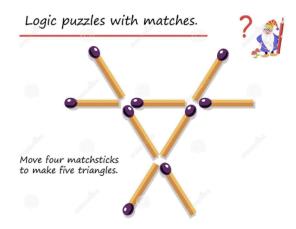
See your teacher for the Math Lab on Probability. When you are done hand in the lab and the book work to your teacher.

**NO Summative Test** 

#### What will I have to do for LG 17?

#### **Logic & Reasoning**

Logic will be done at the beginning or end of class for the first 10 weeks. You will work in groups and be evaluated by your participation & effort.



	First Names					States					Cockta			
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	eleventh													
Places	twelfth													
<u>e</u>	fifteenth													
	twentieth													
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#### **NO Summative Test**

#### What will I have to do for LG 18?

- A. Math Journal record where you might see math used in each Learning Guide Topic.
- B. Math Project see below for outline.

Math in the Real World is where you choose a topic and then find a connection to the real world. Display your work by:

- Make a booklet or poster,
- Produce a video on IPad via I-Movie Trailer,
- Do an oral presentation, or by <u>Morpho</u> on IPad
- · Power Point Presentation

#### **Cross Curricular Project**

This is an Inquiry Project that you will incorporate core competencies involving math, english, science and social studies.

#### **NO Summative Test**

## LEARNING GUIDE PACKAGE

**LEARNING GUIDES** 

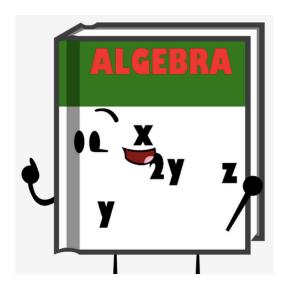
1 - 18



**MATHEMATICS 9** 



## FRANCES KELSEY SCHOOL



REVISED - JUNE 2020