

Math Virtual Learning HS/Essential Math II

May 5, 2020



High School/Essentials of Algebra Course 2 Lesson: May 5, 2020(U4L2 part 2) **Objective/Learning Target:**

- Build working memory & the ability to coordinate multiple constraints.
- Sharpen familiarity with properties of numbers & operations
- Sharpen arithmetic skills (recognizing multiples, factors, etc.)

Bellwork Warm Up



- I am odd.
- My tens digit is a perfect square.
- $h \le t \le u$
- My hundreds digit is one less than my tens digit.

h t u

• h+t=u

8,•			5,+
8,•	9,•		
	8,+		1
	-	2,-	+

Bellwork Answer Key

2

Who Am I?

• I am odd.



- My tens digit is a perfect square.
- h < t < u
- My hundreds digit is one less than my tens digit.
- h+t=u





Discuss & Write What You Think

10 If the product of two numbers is negative, what can you say for sure about the numbers?

If the product of two numbers is positive, what can you say for sure about the numbers?

2) If the product of two numbers is zero, what can you say for sure about the numbers?

Discuss & Write What You Think

(Responses will vary. Examples follow.) (1) If the product of two numbers is negative, what can you say for sure about the numbers? The numbers must have opposite signs (one positive and one negative). (1) If the product of two numbers is positive, what can you say for sure about the numbers? Both numbers must have the same sign (both positive or both negative). (12) If the product of two numbers is zero, what can you say for sure about the numbers? At least one of the numbers must be zero.

#10. Product of two numbers is #11. Product of two numbers is **NEGATIVE**

(-1)(1) = -1(2)(-2) = -4(5)(-5) = -25(Positive)(Negative) = (Negative) (Positive) = DIFFERENCE SIGN FACTORS POSITIVE

(-1)(-1) = 1

(-2)(-2) = 4

(5)(5) = -25

(Negative) (Negative) =

SAME SIGN FACTORS

(Positive)(Positive) =

#12. Product of two numbers is ZERO

(0)(-1) = 0(-2)(0) = 0(0)(0) = 0(Positive)(Positive) = (Negative) (Negative) = AT LEAST ONE ZERO FACTOR

Stuff to Make You Think



Who Am I?

• The sum of my digits is 10.

• ud = 6

- The product of my digits is 30.
- $u \ge d$

•
$$u+d=t$$



- Sum is th<mark>e answer to addition</mark>
- Product is the answer to multiplication

Digits are the numbers 0, 1, 2, 3, 4, 5, 6, 7, 8, or 9



ANSWERS Stuff to Make You Think



Who Am I?

- The sum of my digits is 10.
- ud = 6
- The product of my digits is 30.
- $u \ge d$
- u + d = t

Who Am I? • *u* < *t*

- t u 9 1
- Both my digits are odd and square.



Additional Practice



(i) column 4, row 7

(ii) column -4, row -4





C Where would -18 be in the multiplication table?

Column	-6		
Row	-6		

Column	6		
Row	-3		

• Circle the sign of the number at the following locations.

(i) column -3, row -6	(ii) column 5, row -1	(11) (-3, 3)	(iv) (12,7)	v (-10, -8)
+ or -	+ or -	+ or –	+ or –	+ or –

See the following slide for the page 7 table. You will need to refer to it in order to complete the additional practice



Additional Practice Key

Find the number at the following locations. (6)

+ or (-

(7)

(a) column 12, row 2 24 (b) column -3, row 8 -24 (c) (-4, -6) 24 (d) (12, -2) -24

Where would 24 be in the multiplication table? 3 8 Column 6 3 8 4 Row

Where would -12 be in the multiplication table? (8) vary.)

Column	6	-4	2	-3	12
Row	-2	3	-6	4	-1

(d) (-5, -6)

(e) (12, -9)

Circle the sign of the number at the following locations. (9)

(a) column 5, row -4 (b) column 8, row 4

or –

Notice that 7&8 all were multiples of 24 and 12. Other answers could have been -8, -3 or -12 and 1 etc...

(c) (-2, 10)

+ or (-

Lesson: April 30, 2020 (U4L1 part II) Today you: Mystery Grids

Built your working memory & the ability to coordinate multiple constraints. Sharpened familiarity with properties of numbers & operations Sharpened arithmetic skills (recognizing multiples, factors, etc.)

For additional practice, click the link: Solve Me Mystery Grids