CLASSWORK

STUDENT

INSTRUCTOR I AM MY OWN TEACHER!

LAST WEEK

Math Lab Lesson #3 Activity: Grading an Exam

Name:

Directions:

- 1) You have 26 minutes to complete this test. There are 13 questions.
- 2) No calculators are allowed.
- 3) Mark your answers carefully on the answer sheet provided separately.
- 4) If you finish early, check your work.
- Which expression is **not equivalent** to 5-7?

B)
$$5 + (-7)$$

SUBTRACTIVE IS THE SAME AS ADDING A NEGATIVE

C)
$$7 + (-5)$$

D)
$$-1(7-5)$$

Which expression shows the product 11×12 using our base-10 system?

A)
$$1 \times 10^2 + 3 \times 10^1 + 2 \times 10^0$$

B)
$$3 \times 10^2 + 2 \times 10^1 + 1 \times 10^0$$

$$^{3} + \cancel{3} \times 10^{2} + \cancel{2} \times 10^{1}$$

D)
$$11\times10^{0} + 12\times10^{0}$$



- Which sentence best describes the relationship between natural numbers and integers?
 - A) Some natural numbers are not integers
 - B) All natural numbers are integers
 - Like 3, 4, 7, 15, ... All integers are natural numbers
 - D) Natural numbers and integers are the same thing!
- Which equality shows that the natural numbers are not closed under subtraction?

A)
$$5-7=-2$$

B)
$$7 - (-5) = 12$$

C)
$$7 \times (-5) = -35$$

D) 7-5=2 L T SUBTRACTOR TWO NATURAL NUMBERS

AND LOT ANOTHER NATURAL

NUMBER!

You have \$22.

You have \$23 in your wallet. You get paid \$9 per hour, and you worked for 3 hours last week and 5 hours this week. Then your friend Yacine borrows \$20. Which expression best represents how much money you have left in your wallet?

A)
$$23 + 9(3 - 5) - 20$$

B)
$$23 + 9(3 + 5) - 20$$

C)
$$23 - 9(3 + 5) + 20$$

$$(D) 23 + 9(3 + 5 - 20)$$



All even numbers can be written in the form 2A, where A is an integer. All odd numbers can be written in the form 2B + 1, where B is an integer.

Which expression represents an even number? (Assume that x is an integer)

A)
$$2x + 2$$

B)
$$2x + 3$$

C)
$$2x + 1$$

$$(D)$$
 $2(2x) + 1$

Juan has just learned the distributive property, and he is very excited to try it out! His work is shown below:

Step 1
$$= -6(7) - 6(5)$$

Step 2 $= -42 - 30$
Step 3 $= -72$ WHEN YOU SUBTRACT STANK, YOU FRIM A NEWFINE, YOU FRIM A NEWFINE, YOU GET MORE NEWFINE.

Where did Juan make a mistake?

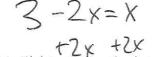
- A) Step 1
- B) Step 2
- C) Step 3
- D) Juan didn't make any mistake, looks good to me!



- 8. The statement 9(a b) = 9a b is
 - A) Always true
 - B) Sometimes true
 - C) Never true



- D) Not enough information given
- 9. The statement 3 2x = x is



- A) Always true
 - B) Sometimes true $\frac{3}{3} = \frac{3x}{3}$
 - C) Never true

- 1 = X
- D) Not enough information given
- 10. The number of inches of water in a bucket during a steady rain shower is given by the expression $\frac{1}{2}t + \frac{3}{2}$, where t is the number of hours since the shower started.

If there are 4 inches of rain in the bucket, how long has it been raining for?

A) 2 hours

$$\frac{1}{2}(4) + \frac{3}{2} = \frac{4}{2} + \frac{3}{2} = \frac{7}{2}$$

- B) 8 hours
- C) 5 hours
- (D) $\frac{7}{2}$ hours



THE X CHANGED PLACES,

11. Amineta is practicing factoring expressions. Her work is shown below. Which factorization is **not correct**?

A)
$$5x + 30 = 5(x + 6)$$

B)
$$30 - 5x = -5(6 - x)$$

C)
$$5x - 30 = 5(x - 6)$$

(D)
$$30-5x=-5(x-6)$$
 $x = -5(x-6)$
 $x = -5(x-6)$
 $x = -5(x-6)$
 $x = -5(x-6)$
 $x = -5(x-6)$

12. Consider the equation 3(x+2) = 21y + 6. What must be true of the ratio $\frac{y}{x}$ in order for this equation to be an identity? (Assume that $x \neq 0$ and $y \neq 0$)

$$\mathbf{B)} \ \frac{y}{x} = -\frac{1}{7}$$

C)
$$\frac{y}{x} = \frac{1}{7}$$

$$\mathbf{D)} \ \frac{y}{x} = \frac{x}{y}$$

$$\frac{3x}{3} = \frac{219}{3}$$

13. Let P = 5k + 4 and Q = 18 - 2k. If P = Q, then what is the value of k?

A)
$$k = -4$$

B)
$$k = 4$$

C)
$$k = 2$$

$$\frac{7K = 14}{7}$$

D) k can be any rational number.

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