## FRACTION ALLEY ALGEBRA BLOCK

## Fraction Alley - Algebra Block Dimension 2000 ©2004

| .125          | What do we call a symbol that represents a number or value that can change and is unlikely to remain constant? | variable             |
|---------------|--|----------------------|
| .25           | What is the value of the coefficient in the expression $12x^2y$ ?  | 12                   |
| .375          | What is the sum of the exponents on the variables in the expression $4x^3y$ ?                                  | 4                    |
| .5            | How many terms are in the equation $2x + 11 - x = 5x + 4$ ?  | 5                    |
| .625          | What is the range of values represented by the inequality $-2 \le x \le 12$ ?                                  | 14                   |
| .750          | Find the sum of the absolute values of the integers between 0 and $-5$ .                                       | 10                   |
| .875          | True or False: Zero is not an irrational number.   | True                 |
| 1             | True or False: Zero is not an integer.   | False                |
| 1.125         | True or False: Irrational numbers are not considered Real numbers.   | False                |
| 1.25          | True or False: Since the set of integers is infinite, the set of whole numbers is finite.                      | False                |
| 1.375         | True or False: The sum of two odd numbers is always even.  | True                 |
| 1.5           | True or False: The product of two odd numbers is always odd.   | True                 |
| 1.625         | True or False: $\sqrt{2}$ is a rational number.  | False                |
| 1.750         | True or False: Every whole number and every integer is a rational number.                                      | True                 |
| 1.875         | True or False: Every rational number can be written as a terminating or repeating decimal.                     | True                 |
| 2             | Find the fraction equivalent of .55555 repeating.  | 5/9                  |
| 2.125         |  | True                 |
| 2.25          | True or False: The fraction 5/6 can be written as a terminating decimal.                                       | False                |
| 2.375         | True or False: The number .99999 repeating is equivalent to 1.   | True                 |
| 2.5           | What is the sum of the exponents on the variables in the expression –6rs <sup>2</sup> t?                       | 4                    |
| 2 <u>.625</u> | Find the sum of the first five whole numbers.  | 10                   |
| 2 <u>.750</u> |  | Rational Numbers     |
| 2 <u>.875</u> |  | Integers             |
| 3             | What set is the union of the even whole numbers and the odd whole numbers?                                     | Whole Numbers        |
| 3.125         |  | Commutative          |
| 3.25          | What property name is associated with $a(b + c) = ab + ac$ ?   | Distributive         |
| 3.375         |  | Associative          |
| 3.5           | What property guarantees that the sum of two real numbers is a real number?                                    | Closure              |
| 3.625         | What property name is associated with $a + (-a) = 0$ ?   | Inverse of Addition  |
| 3.750         |  | Identity of Addition |
| 3.875         |  | Inverse of Mult.     |
| 4             | What property name is associated with $a \cdot 1 = a$ ?  | Identify of Mult.    |

| <b>FRACTION ALLEY</b> 24.125Evaluate $2a + b$ if $a = 5$ and $b = -8$ .24.25Evaluate $2a + 1$ if $x = -1/2$ . <b>ALGEBRA BLOCK</b> 4.375Fvaluate $-2x^2 + 1$ if $x = -2$ 74.5Evaluate $-2x^2 + 1$ if $x = -2$ 75Solve 5x + 10 = 50 for x.x = 85True or False: is not a real number.False5.125Solve (1/2)x + 1 = 26 for xx = 505.25Fractuate $a^3$ by here $-9^3$ and $b = 5$ . Simplify your answer.195.5What is the name of a polynomial with exactly two terms?binomial5.625What is the name of a polynomial with exactly two terms?trinonial5.705Find the sum of 4x, 5xy, and 6x.True or False:6Find the fraction number.True7Find the fraction number.False6.257True or False: The fraction $10^7$ cup exating decimal.False6.257Find the product of $10^2$ and $2x^2$ . $x^4$ </th <th></th> <th>FDACTIO</th> <th>N ALLEV</th>  |              | FDACTIO   | N ALLEV              |
|--|--------------|---|----------------------|
| 4.375Evaluate $-2x^2 + 1$ if $x = -2$ . $-7$ 4.5Evaluate $m + n$ if $m = 6$ and n equals half of m.94.625What is the average of the first five counting numbers?34.750Solve $5x + 10 = 50$ for x. $x = 8$ 4.875True or False: is not a real number.False5True or False: $00 = 1$ .False5.125Solve $(1/2) x + 1 = 26$ for x $x = 50$ 5.25True or False: $x = 9$ is part of the solution of $x - 10 > -1$ .False5.375Evaluate $a'b$ where $a = 95$ and $b = 5$ . Simplify your answer.195.5What is the name of a polynomial with exactly two terms?binomial5.62What is the name of a polynomial with exactly three terms?trinomial5.750Find the sum of 4x, 5xy, and 6x.10x + 5xy5.875True or False: .25252525 is a rational number.True6Find the fraction equivalent of .777 repeating.7/96.125True or False: The fraction 10/15 can be written as a terminating decimal.False6.375Find the greatest proper factor of 40.206.5Find the greatest common factor of 12x and 8yz.4/46.625Find the least common multiple of 16 and 32.327Find the least common multiple of 16 and 32.327Find the least common multiple of 16 and 32.327Find the least common multiple of 16 and 32.317.125What property name is associated with $a + b = b + a$ ?Commutative7.25What property mame is as  | 4.125        | Evaluate $2a + b$ if $a=3$ and $b=-8$ .                                       | 2                    |
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| 4.5Evaluate $m + n$ if $m = 6$ and $n$ equals half of $m$ .94.625What is the average of the first five counting numbers?34.750Solve $5x + 10 = 50$ for $x$ . $x = 8$ 4.875True or False: is not a real number.False5True or False: $00 = 1$ .False5.125Solve $(1/2)x + 1 = 26$ for $x$ $x = 50$ 5.25True or False: $x = 9$ is part of the solution of $x - 10 > -1$ .False5.375Evaluate $ab$ where $a = 95$ and $b = 5$ .Simplify your answer.5.25True or False: $x = 9$ is part of the solution of $x - 10 > -1$ .False5.25What is the name of a polynomial with exactly thore terms?binomial5.625What is the name of a polynomial with exactly three terms?trinomial5.750Find the sum of $4x$ , $5xy$ , and $6x$ . $10x + 5xy$ 5.875True or False: The fraction lovits can be written as a terminating decimal.False6.125True or False: The fraction $10/15$ can be written as a terminating decimal.False6.25Find the greatest proper factor of $40$ . $20$ 6.3Find the greatest proper factor of $40$ . $20$ 6.4False $-4x + 6$ 6.750Find the eaditive inverse of the binomial $4x - 6$ . $4y$ 6.875Find the greatest common factor of $12xy$ and $8yz$ . $4y$ 6.875Find the ead common multiple of 16 and $32$ . $32$ 7Find the least common factor of $16$ . $31$ 7.125What property name is associated with $a + b = b + a$ ?Commuta  | 4.375        |   |                      |
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| 6.25True or False: The fraction x/y equals zero when y equals zero.False6.375Find the greatest proper factor of 40.206.5Find the product of $(1/2)x^2$ and $2x^2$ . $x^4$ 6.625Find the additive inverse of the binomial $4x - 6$ . $-4x + 6$ 6.750Find the greatest common factor of 12xy and 8yz.4y6.875Find the least common multiple of 16 and 32.327Find the sum of the whole number factors of 16.317.125What property name is associated with $a + b = b + a$ ?Commutative7.25What property name is associated with $(a + b) + c = a + (b + c)$ ?Associative7.5What property name is associated with $a + 0 = a$ ?Inverse of Addition7.625What property name is associated with $a + 0 = a$ ?Inverse of Addition7.750What property name is associated with $a + 0 = a$ ?Inverse of Addition7.750What property name is associated with $a + 0 = a$ ?Inverse of Addition7.750What property name is associated with $a + 0 = a$ ?Inverse of Addition7.750What property name is associated with $a + 0 = a$ ?Inverse of Addition7.750What property name is associated with $a + 0 = a$ ?Inverse of Addition7.750What property name is associated with $a + 0 = a$ ?Inverse of Addition7.750What property name is associated with $a + 0 = a$ ?Inverse of Mult.  | 6            | Find the fraction equivalent of .7777 repeating.                              | 7/9                  |
| 6.375Find the greatest proper factor of 40.206.5Find the product of $(1/2)x^2$ and $2x^2$ . $x^4$ 6.625Find the additive inverse of the binomial $4x - 6$ . $-4x + 6$ 6.750Find the greatest common factor of 12xy and 8yz.4y6.875Find the least common multiple of 16 and 32.327Find the sum of the whole number factors of 16.317.125What property name is associated with $a + b = b + a$ ?Commutative7.25What property name is associated with $(a + b) + c = a + (b + c)$ ?Associative7.5What property name is associated with $a + (-a) = 0$ ?Inverse of Addition7.750What property name is associated with $a + 0 = a$ ?Identity of Addition7.875What property name is associated with $a + 0 = a$ ?Inverse of Mult.  | 6.125        | True or False: The fraction 10/15 can be written as a terminating decimal.    | False                |
| 6.5Find the product of $(1/2)x^2$ and $2x^2$ . $x^4$ 6.625Find the additive inverse of the binomial $4x - 6$ . $-4x + 6$ 6.750Find the greatest common factor of 12xy and 8yz. $4y$ 6.875Find the least common multiple of 16 and 32. $32$ 7Find the sum of the whole number factors of 16. $31$ 7.125What property name is associated with $a + b = b + a$ ?Commutative7.25What property name is associated with $(a + b) + c = a + (b + c)$ ?Associative7.375What property name is associated with $a + (-a) = 0$ ?Inverse of Addition7.625What property name is associated with $a + 0 = a$ ?Inverse of Mult.   | 6.25         | True or False: The fraction x/y equals zero when y equals zero.               | False                |
| 6.625Find the additive inverse of the binomial $4x - 6$ . $-4x + 6$ 6.750Find the greatest common factor of 12xy and 8yz.4y6.875Find the least common multiple of 16 and 32.327Find the sum of the whole number factors of 16.317.125What property name is associated with $a + b = b + a$ ?Commutative7.25What property name is associated with $a(b + c) = ab + ac$ ?Distributive7.375What property name is associated with $(a + b) + c = a + (b + c)$ ?Associative7.625What property name is associated with $a + (-a) = 0$ ?Inverse of Addition7.750What property name is associated with $a + 0 = a$ ?Identity of Addition7.875What property name is associated with $a + 0 = a$ ?Inverse of Mult.   | 6.375        | Find the greatest proper factor of 40.  | 20                   |
| 6.750Find the greatest common factor of 12xy and 8yz. $4y$ $6.875$ Find the least common multiple of 16 and 32. $32$ $7$ Find the sum of the whole number factors of 16. $31$ $7.125$ What property name is associated with $a + b = b + a$ ?Commutative $7.25$ What property name is associated with $a(b + c) = ab + ac$ ?Distributive $7.375$ What property name is associated with $(a + b) + c = a + (b + c)$ ?Associative $7.5$ What property name is associated with $a + (-a) = 0$ ?Inverse of Addition $7.625$ What property name is associated with $a + 0 = a$ ?Identity of Addition $7.750$ What property name is associated with $a + 0 = a$ ?Inverse of Mult.  |              |   | <u> </u>             |
| 6.875Find the least common multiple of 16 and 32. $32$ 7Find the sum of the whole number factors of 16. $31$ 7.125What property name is associated with $a + b = b + a$ ?Commutative7.25What property name is associated with $a(b + c) = ab + ac$ ?Distributive7.375What property name is associated with $(a + b) + c = a + (b + c)$ ?Associative7.5What property guarantees that the sum of two whole numbers is a whole number?Closure7.625What property name is associated with $a + (-a) = 0$ ?Inverse of Addition7.750What property name is associated with $a + 0 = a$ ?Identity of Addition7.875What property name is associated with $a + 0 = a$ ?Inverse of Mult.   | <u>6.625</u> | Find the additive inverse of the binomial $4x - 6$ .                          | -4x + 6              |
| 7Find the sum of the whole number factors of 16.317.125What property name is associated with $a + b = b + a$ ?Commutative7.25What property name is associated with $a(b + c) = ab + ac$ ?Distributive7.375What property name is associated with $(a + b) + c = a + (b + c)$ ?Associative7.5What property guarantees that the sum of two whole numbers is a whole number?Closure7.625What property name is associated with $a + (-a) = 0$ ?Inverse of Addition7.750What property name is associated with $a + 0 = a$ ?Identity of Addition7.875What property name is associated with $a + 0 = a$ ?Inverse of Mult.  | 6.750        | Find the greatest common factor of 12xy and 8yz.                              | 4y                   |
| 7.125What property name is associated with $a + b = b + a$ ?Commutative7.25What property name is associated with $a(b + c) = ab + ac$ ?Distributive7.375What property name is associated with $(a + b) + c = a + (b + c)$ ?Associative7.5What property guarantees that the sum of two whole numbers is a whole number?Closure7.625What property name is associated with $a + (-a) = 0$ ?Inverse of Addition7.750What property name is associated with $a + 0 = a$ ?Identity of Addition7.875What property name is associated with $a + 0 = a$ ?Inverse of Mult.  | 6.875        | Find the least common multiple of 16 and 32.                                  | 32                   |
| 7.25What property name is associated with $a(b + c) = ab + ac$ ?Distributive7.375What property name is associated with $(a + b) + c = a + (b + c)$ ?Associative7.5What property guarantees that the sum of two whole numbers is a whole number?Closure7.625What property name is associated with $a + (-a) = 0$ ?Inverse of Addition7.750What property name is associated with $a + 0 = a$ ?Identity of Addition7.875What property name is associated with $a \cdot (1/a) = 1$ ?Inverse of Mult.   | 7            | Find the sum of the whole number factors of 16.                               | 31                   |
| 7.375What property name is associated with $(a + b) + c = a + (b + c)$ ?Associative7.5What property guarantees that the sum of two whole numbers is a whole number?Closure7.625What property name is associated with $a + (-a) = 0$ ?Inverse of Addition7.750What property name is associated with $a + 0 = a$ ?Identity of Addition7.875What property name is associated with $a \cdot (1/a) = 1$ ?Inverse of Mult.   | 7.125        |   | Commutative          |
| 7.5What property guarantees that the sum of two whole numbers is a whole number?Closure7.625What property name is associated with $a + (-a) = 0$ ?Inverse of Addition7.750What property name is associated with $a + 0 = a$ ?Identity of Addition7.875What property name is associated with $a \cdot (1/a) = 1$ ?Inverse of Mult.  | 7.25         |   |                      |
| 7.625What property name is associated with $a + (-a) = 0$ ?Inverse of Addition7.750What property name is associated with $a + 0 = a$ ?Identity of Addition7.875What property name is associated with $a \cdot (1/a) = 1$ ?Inverse of Mult.   | 7.375        | What property name is associated with $(a + b) + c = a + (b + c)$ ?           | Associative          |
| 7.750What property name is associated with $a + 0 = a$ ?Identity of Addition7.875What property name is associated with $a \cdot (1/a) = 1$ ?Inverse of Mult.   | 7.5          | What property guarantees that the sum of two whole numbers is a whole number? | Closure              |
| 7.875What property name is associated with a $\cdot$ (1/a) = 1?Inverse of Mult.  | 7.625        | What property name is associated with $a + (-a) = 0$ ?                        | Inverse of Addition  |
|  | 7.750        | What property name is associated with $a + 0 = a$ ?                           | Identity of Addition |
| 8 What property name is associated with a • 1 = a? Identify of Mult.   | 7.875        | What property name is associated with $a \cdot (1/a) = 1$ ?                   | Inverse of Mult.     |
|  | 8            | What property name is associated with $a \cdot 1 = a$ ?                       | Identify of Mult.    |

|               |  | FRACTION ALLEY            |                      |
|---------------|--|---------------------------|----------------------|
| 8.125         | Name the prime numbers between 10 and 20.                      |                           | 11, 13, 17, 19       |
| 8.25          | Find the product of $2x^3$ and $5x^3$                          | ALGEBRA BLOCK             | 10x <sup>6</sup>     |
| 8.375         | Find the product of $(3/4)x^8$ and $20x^{-6}$ .                |                           | 15x <sup>2</sup>     |
| 8.5           | What prime number has the least value?                         |                           | 2                    |
| 8.625         | What is the average of the first four prime numbers?           |                           | 4.25                 |
| 8.750         | Solve $11x + 8 = 30$ for x.                                    |                           | x=2                  |
| 8.875         | True or False: 8/2 is not an integer.                          |                           | False                |
| 9             | True or False: 0/1 is undefined.                               |                           | False                |
| 9.125         | Find the sum of $6x + 1$ and $1 - 6x$ .                        |                           | 2                    |
| 9.25          | True or False: Any number, 0, raised to the zero power is      | 1.                        | True                 |
| 9.375         | Evaluate $a - b$ where $a = 6$ and $b = .02$ .                 |                           | 5.98                 |
| 9.5           | What is the square of 12?                                      |                           | 144                  |
| 9.625         | What is the square of 15?                                      |                           | 225                  |
| 9.750         | What is the square of 17?                                      |                           | 289                  |
| 9.875         | True or False: $\sqrt{81}$ is an irrational number.            |                           | False                |
| 10            | Write 80% as a fraction written in lowest terms.               |                           | 4/5                  |
| 10.125        | True or False: The fraction 1/5 can be written as a terminatin | ig decimal.               | True                 |
| 10.25         | If $f(x) = 4x - 5$ then $f(8) = ?$                             |                           | 27                   |
| 10.375        | Find the sum of the whole number factors of 20.                |                           | 42                   |
| 10.5          | Find the quotient of $20x^5y^4$ and $2x^2y$ .                  |                           | $10x^{3}y^{3}$       |
| <u>10.625</u> | If $f(x) = -2x + 11$ then $f(-11) = ?$                         |                           | 33                   |
| <u>10.750</u> | Find the greatest common factor of 60xy and 45xy.              |                           | 15xy                 |
| 10.875        | Find the least common multiple of 3x and 5y.                   |                           | 15xy                 |
| 11            | Find the sum of the whole number factors of 42.                |                           | 96                   |
| 11.125        | What property name is associated with $a + b = b + a$ ?        |                           | Commutative          |
| 11.25         | What property name is associated with $a(b + c) = ab + ac$ ?   |                           | Distributive         |
| <u>11.375</u> | What property name is associated with $(a + b) + c = a + (b)$  |                           | Associative          |
| 11.5          | What property guarantees that the sum of two rational numb     | ers is a rational number? | Closure              |
| <u>11.625</u> | What property name is associated with $a + (-a) = 0$ ?         |                           | Inverse of Addition  |
| <u>11.750</u> | What property name is associated with $a + 0 = a$ ?            |                           | Identity of Addition |
| <u>11.875</u> |  |                           | Inverse of Mult.     |
| 12            | What property name is associated with $a \cdot 1 = a$ ?        |                           | Identify of Mult.    |

## FRACTION ALLEY

| 12 125        | Find the slope of the line that contains the points $(6,7)$ and $(-1,7)$ .    | 0                    |
|---------------|---|----------------------|
|               |   |                      |
| 12.25         | Expand $(x + 4)^2$ .  | $x^2 + 8x + 16$      |
| 12.375        |   | (x+6)(x+4)           |
| 12.5          | Name the prime numbers between 50 and 60.                                     | 53 and 59            |
|               | What is the average of the first five positive multiples of 5?                | 15                   |
|               | Solve $-10x - 18 = 20$ for x.   | x = -3.8             |
|               | True or False: The graph of y=4 is a vertical line.                           | False                |
| 13            | True or False: The graph of x=4 is a vertical line.                           | True                 |
| 13.125        |   | 3                    |
| 13.25         | Find the y intercept of the graph of $y = 5x + 4$ .                           | 4                    |
| 13.375        | Evaluate $6a - 2b$ where $a= 5$ and $b= 1/2$ .                                | 29                   |
| 13.5          | What is the square of 13?   | 169                  |
| 13.625        | What is the square of 14?   | 196                  |
| 13.750        | What is the square of 18?   | 324                  |
| 13.875        | True or False: $\sqrt{20}$ is an irrational number.                           | True                 |
| 14            | Write 60% as a fraction written in lowest terms.                              | 3/5                  |
| 14.125        | True or False: The fraction 10/7 can be written as a terminating decimal.     | False                |
| 14.25         | If $f(x) = 5x - 10$ then $f(1) = ?$   | -5                   |
| 14.375        | Find the sum of the whole number factors of 18.                               | 39                   |
| 14.5          | Find the quotient of $100x^2y^3$ and $50x^2y$ .                               | 2y <sup>2</sup>      |
| <u>14.625</u> | If $f(x) = -6x + 7$ then $f(2) = ?$   | -5                   |
| <u>14.750</u> | What do we call a polynomial with three terms?                                | trinomial            |
| 14.875        | The rational and irrational numbers combine to form what set of numbers?      | Real                 |
| 15            | Find the slope of the graph of $2x + 2y = 12$ .                               | -1                   |
| 15.125        | What property name is associated with $a + b = b + a$ ?                       | Commutative          |
| 15.25         | What property name is associated with $a(b + c) = ab + ac$ ?                  | Distributive         |
| 15.375        | What property name is associated with $(a + b) + c = a + (b + c)$ ?           | Associative          |
| 15.5          | What property guarantees that the sum of two whole numbers is a whole number? | Closure              |
| 15.625        | What property name is associated with $a + (-a) = 0$ ?                        | Inverse of Addition  |
| 15.750        | What property name is associated with $a + 0 = a$ ?                           | Identity of Addition |
| 15.875        | What property name is associated with a $\cdot$ (1/a) = 1?                    | Inverse of Mult.     |
| 16            | What property name is associated with $a \cdot 1 = a$ ?                       | Identify of Mult.    |

FSARTIAN ALLEV

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| 16.125 | Find the slope of the line that contains the points (-2,0) and (4,6).     |                               |
|--------|---|-------------------------------|
| 16.25  | Factor $x^2 + 12x + 35$ .   | <b>A BLOCK</b> (x + 7)(x + 5) |
| 16.375 |   | (x+5)(x+4)                    |
| 16.5   | Name the prime numbers between 40 and 50.                                 | 41, 43 and 47                 |
| 16.625 | What is the average of the factors of 20?                                 | 7                             |
| 16.750 | Simplify $\sqrt{20}$ .  | 2√5                           |
| 16.875 | What is five less than the square of 2?                                   |                               |
| 17     | True or False: The graph of y=9 is a vertical line.                       | False                         |
| 17.125 | Find the slope of the line that contains the points $(0,0)$ and $(2,3)$ . | 1.5                           |
| 17.25  | Find the y intercept of the graph of $5x + 2y = 12$ .                     | 6                             |
| 17.375 | What is twice the sum of 12 and half of 12?                               | 36                            |
| 17.5   | What is the square of 12?   | 144                           |
| 17.625 | What is the square of 11?   | 121                           |
| 17.750 | What is the square of 13?   | 169                           |
| 17.875 | Simplify $2\sqrt{5} + \sqrt{20}$  | $4\sqrt{5}$                   |
| 18     | Write 75% as a fraction written in lowest terms.                          | 3/4                           |
| 18.125 |   | False                         |
| 18.25  | If $f(x) = 10x - 10$ then $f(9) = ?$                                      | 80                            |
| 18.375 |   | 6                             |
| 18.5   | Divide 4 by 1/2.  | 8                             |
| 18.625 | If $f(x) = -6x + 7$ then $f(2) = ?$                                       | -5                            |
| 18.750 | What do we call a polynomial with three terms?                            | trinomial                     |
| 18.875 | The rational and irrational numbers combine to form what set of numbers?  | Real                          |
| 19     | Find the slope of the graph of $y = -x + 8$ .                             | -1                            |
| 19.125 | What property name is associated with $a + b = b + a$ ?                   | Commutative                   |
| 19.25  | What property name is associated with $a(b + c) = ab + ac$ ?              | Distributive                  |
| 19.375 | What property name is associated with $(a + b) + c = a + (b + c)?$        | Associative                   |
| 19.5   | What property guarantees that the sum of two integers is an integer?      | Closure                       |
| 19.625 |   | Inverse of Addition           |
| 19.750 |   | Identity of Addition          |
| 19.875 |   | Inverse of Mult.              |
| 20     | What property name is associated with $a \cdot 1 = a$ ?                   | Identify of Mult.             |

| 20 125 | Evaluate $5x + 2x$ if $y = 4$ and $y = -1/2$   | CTION ALLEY             | 19                   |
|--------|--|-------------------------|----------------------|
| 20.125 | Evaluate $5x + 2y$ if $x = 4$ and $y = -1/2$ .                                       | EBRA BLOCK              |                      |
|        |  | EDKA DLUGK              |                      |
|        | Evaluate $-3x^2 + 6$ if $x = -4$ .   |                         | -42                  |
| 20.5   | Evaluate $2m + n$ if $m = 5$ and n equals half of m.                                 |                         | 12.5                 |
|        | What is the average of the first seven counting numbers?                             |                         | 4                    |
|        | Solve $7x + 11 = 39$ for x.  |                         | x=4                  |
|        | True or False: In a right triangle, the sum of the squares of the legs equals the sq | uare of the hypotenuse. | True                 |
| 21     | True or False: Division by zero is undefined in mathematics.                         |                         | True                 |
| 21.125 |  |                         | x=100                |
| 21.25  | True or False: $x=2$ is part of the solution of $2x - 1 > 6$ .                       |                         | False                |
|        | Evaluate $a/(b+2)$ where $a=6$ and $b=1$ . Simplify your answer.                     |                         | 2                    |
| 21.5   | What is the name of a polynomial with exactly two terms?                             |                         | binomial             |
|        | What is the name of a polynomial with exactly three terms?                           |                         | trinomial            |
|        | Find the sum of $2x + 4$ and $6x - 4$ .  |                         | 8x                   |
| 21.875 |  | f a rational number.    | True                 |
| 22     | Find the fraction equivalent of .2222 repeating.                                     |                         | 2/9                  |
| 22.125 | True or False: The fraction 7/8 can be written as a terminating decimal.             |                         | True                 |
| 22.25  | True or False: The fraction x/y equals two when y equals half of x                   |                         | True                 |
| 22.375 | Find the greatest proper factor of 100.  |                         | 50                   |
| 22.5   | Find the product of $4t^2$ and $5t^5$ .  |                         | 20t <sup>7</sup>     |
| 22.625 | Find the additive inverse of the binomial $ax - y$ .                                 |                         | -ax + y              |
| 22.750 | Find the greatest common factor of 12abc and 20ab.                                   |                         | 4ab                  |
| 22.875 | Find the least common multiple of 12xy and 20xy.                                     |                         | 60xy                 |
| 23     | Find the sum of the whole number factors of 29.                                      |                         | 30                   |
| 23.125 | What property name is associated with $a + b = b + a$ ?                              |                         | Commutative          |
| 23.25  | What property name is associated with $a(b + c) = ab + ac$ ?                         |                         | Distributive         |
| 23.375 | What property name is associated with $(a + b) + c = a + (b + c)$ ?                  |                         | Associative          |
| 23.5   | What property guarantees that the sum of two rational numbers is a rational num      | ber?                    | Closure              |
| 23.625 | What property name is associated with $a + (-a) = 0$ ?                               |                         | Inverse of Addition  |
| 23.750 |  |                         | Identity of Addition |
| 23.875 |  |                         | Inverse of Mult.     |
| 24     | What property name is associated with $\mathbf{a} \cdot 1 = \mathbf{a}$ ?            |                         | Identify of Mult.    |
|        | ·  |                         | 30004 D: : 0000      |

| 24.125        | What do we call a symbol that represents a number or value that can change and is unlikely to remain constant? | variable             |
|---------------|--|----------------------|
| 24.25         | What is the sum of the values of the coefficients in the expression $14x^2y + 6xy$ ?                           | 20                   |
| 24.375        | What is the sum of the exponents on the variables in the expression $2xy + 5x^2y$ ?                            | 5                    |
| 24.5          | How many terms are in the equation $5x + 11 - 2x = 7x + 4$ ?   | 5                    |
| 24.625        | What is the range of values represented by the inequality $-15 \le x \le -1$ ?                                 | 14                   |
| 24.750        | True or False: The quotient of two even whole numbers is always an even whole number.                          | False                |
| 24.875        | True or False: In a right triangle, the sum of the squares of the legs equals the square of the hypotenuse.    | True                 |
| 25            | True or False: An integer and a fraction cannot represent the same number.                                     | False                |
| 25.125        | Solve the system $x + y = 15$ and $x = 2y$ for x and y.  | x=10, y=5            |
| 25.25         | True or False: $x = -3$ is part of the solution of $2x + 1 < 0$ .  | True                 |
| <u>25.375</u> | Evaluate $2a/(b+1)$ where $a=5$ and $b=1$ . Simplify your answer.  | 5                    |
| 25.5          | What can be used to keep a sandwich fresh and to multiply binomials?   | FOIL                 |
| 25.625        | What is the name of a polynomial with exactly three terms?   | trinomial            |
| 25.750        | Solve the system $x + 2y = 20$ and $y = 2x$ for x and y.   | x=4, y=8             |
| 25.875        | $2\sqrt{5} + 8\sqrt{5} = ?$  | $10\sqrt{5}$         |
| 26            | Find the fraction equivalent of .4444 repeating.   | 4/9                  |
| 26.125        | True or False: The fraction 1/16 can be written as a terminating decimal.                                      | True                 |
| 26.25         | True or False: The fraction $x/y$ is greater than 1 when $x > y$ .   | True                 |
| 26.375        | Solve the system $2x + y = 10$ and $x - y = -1$ for x and y.   | x=3, y=4             |
| 26.5          | Find the product of 5p <sup>6</sup> and 5p <sup>-6</sup> .   | 25                   |
| 26.625        | Find the additive inverse of the binomial $2x^2 + x - 1$ .   | $-2x^{2} - x + 1$    |
|               | Find the slope of the line represented by $y = 3x + 9$ .   | 3                    |
| 26.875        | The graph of $y = 12x - 9$ is what plane figure?   | line                 |
| 27            | The graph of $y = 2x^2 + 4x$ is what plane figure?   | parabola             |
| 27.125        | What property name is associated with $a + b = b + a$ ?  | Commutative          |
| 27.25         | What property name is associated with $a(b + c) = ab + ac$ ?   | Distributive         |
| 27.375        | What property name is associated with $(a + b) + c = a + (b + c)$ ?  | Associative          |
| 27.5          | What property guarantees that the sum of two integers is an integer?   | Closure              |
| 27.625        | What property name is associated with $a + (-a) = 0$ ?   | Inverse of Addition  |
| 27.750        | What property name is associated with $a + 0 = a$ ?  | Identity of Addition |
| 27.875        | What property name is associated with a $\cdot$ (1/a) = 1?   | Inverse of Mult.     |
| 28            | What property name is associated with $a \cdot 1 = a$ ?  | Identify of Mult.    |

| 28.125        | Find the slope of the line that contains the points (0,0) and (15,15).    | 1                    |
|---------------|---|----------------------|
| 28.25         |   | (x+1)(x+5)           |
| 28.375        | Factor $x^2 + 6x + 5$ .<br>Factor $x^2 + 12x + 20$ .                      | (x + 10)(x + 2)      |
| 28.5          | Name the prime numbers between 60 and 70.                                 | 61 and 67            |
| 28.625        |   | 6.5                  |
| 28.750        | Simplify $\sqrt{200}$ .   | $10\sqrt{2}$         |
| 28.875        | What is seven more than the square of 8?                                  | 71                   |
| 29            | True or False: The graph of y=x is a vertical line.                       | False                |
| 29.125        | Find the slope of the line that contains the points $(0,0)$ and $(9,3)$ . | 1/3                  |
| 29.25         | Find the y intercept of the graph of $x + y + 1 = 0$ .                    | -1                   |
| 29.375        | What is twice the sum of 15 and the next consecutive number?              | 62                   |
| 29.5          | What is the square of 19?   | 361                  |
| 29.625        | What is the square of 18?   | 324                  |
| 29.750        | What is the square of 13?   | 169                  |
| 29.875        | Simplify $2\sqrt{5} + \sqrt{45}$  | 5√5                  |
| 30            | Write 60% as a fraction written in lowest terms.                          | 3/5                  |
| 30.125        | True or False: can be written as a fraction.                              | False                |
| 30.25         | If $f(x) = 12x - 11$ then $f(3) = ?$                                      | 25                   |
| <u>30.375</u> | Find the y-intercept of the graph of $y=5$ .                              | 5                    |
| 30.5          | Divide 6 by 1/2.  | 12                   |
| 30.625        | If $f(x) = -x - 7$ then $f(2) = ?$  | 9                    |
|               | What do we call a polynomial with three terms?                            | trinomial            |
| 30.875        |   | Real                 |
| 31            | Find the slope of the graph of $y = -4x + 8$ .                            |                      |
|               | What property name is associated with $a + b = b + a$ ?                   | Commutative          |
| 31.25         | What property name is associated with $a(b + c) = ab + ac$ ?              | Distributive         |
| 31.375        | What property name is associated with $(a + b) + c = a + (b + c)$ ?       | Associative          |
| 31.5          | What property guarantees that the product of two integers is an integer?  | Closure              |
| 31.625        |   | Inverse of Addition  |
|               | What property name is associated with $a + 0 = a$ ?                       | Identity of Addition |
| 31.875        |   | Inverse of Mult.     |
| 32            | What property name is associated with $a \cdot 1 = a$ ?                   | Identify of Mult.    |
|               |   |                      |

|        | Firshiets 2(x + x) if y= 2 and y= 1/2 FRACTION ALLEY  | 1          |
|--------|---|------------|
| 32.125 | Evaluate $2(x + y)$ if $x = 2$ and $y = -1/2$ .   | 3          |
| 32.25  | Evaluate $x^2 + 2x$ if $x = -1/2$ .   | -3/4       |
| 32.375 | Evaluate $-3x^2 + 6$ if $x = 5$ .   | -69        |
| 32.5   | Evaluate $2m + n$ if $m = 5$ and n is the next consecutive number.  | 16         |
| 32.625 | What is the average of the proper factors of 21? Round your answer to the nearest whole number.             | 4          |
| 32.750 | Solve $2x + 20 = 68$ for x.   | x= 24      |
| 32.875 | True or False: In a right triangle, the sum of the squares of the legs equals the square of the hypotenuse. | True       |
| 33     | True or False: Division by zero is undefined in mathematics.  | True       |
| 33.125 | Solve $(1/2)x + 9 = 19$ for x   | x= 5       |
| 33.25  | True or False: If 2 lines are perpendicular, their slopes are negative reciprocals of each other.           | True       |
| 33.375 | The product of 2 consecutive integers is 42. Find the two integers.   | 6 and 7    |
| 33.5   | What is the name of a polynomial with exactly two terms?  | binomial   |
| 33.625 | What is the name of a polynomial with exactly three terms?  | trinomial  |
| 33.750 | Find the sum of three consecutive integers if the first integer is $-1$ .                                   | 0          |
| 33.875 | True or False: The sum of two irrational numbers is always irrational.                                      | False      |
| 34     | Find the fraction equivalent of .3333 repeating.  | 3/9 or 1/3 |

