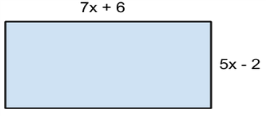
GSE Algebra 1 **Unit 0 Test Review** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Jimmy is spending twelve less than double the amount of money that Jane spends on groceries. If Jane spends *x* amount of dollars, write an **expression** that represents the amount that Jimmy spends.
2. Ashley is 6 years less than triple her grandfather’s age. What would be the **expression** for this?
3. We are building a pen for our pigs. One side is 4 less than triple the other. Write an expression for the perimeter so you know how much fencing to buy for the pigs?
4. **Simplify** the following
   1. (4x3 + 1x - 6) + (x2 + 2x + 5) b.

1. **Multiply** the following polynomials.
   1. b.
2. Calculate the **area** and **perimeter** of the rectangle

Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Perimeter: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



1. What is the coefficient in the term 5x4? \_\_\_\_\_\_\_\_\_ What does **coefficient** mean? (explain in words)
2. How many terms does the expression have: 3x4 + 2x3 - 5xy + 4

What is a term? How are terms split up?

1. a. Simplify (3 - ) b. Simplify
2. Simplify the following:
3. A rectangle has a total perimeter of and a side length of . What is the length of the other side?
4. Find the perimeter of the following:
5. Your grandmother has bought a rectangular table that has side lengths of on two sides and on the other two sides. What would be the **area** of the table your grandmother has?

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1. Your pool is filling up at a rate of 1200 gallons/hour. What would be the speed in liters/second?

(1 gallon = 3.785 liters)

1. You are driving at a speed of 90 meters/hour. What is your speed in inches/min? (3.3 ft = 1 m, 12 in = 1 ft)
2. The approximate distance from EJCHS to Walmart is 18 miles. What would be the distance centimeters?

(1 km = 0.621 miles)

1. The distance that Mrs. Forrester walks around the classroom is 14,500 feet per week. What is the distance in km per hour? (2.54 cm = 1 in)
2. State if the value is rational or irrational:
   1. Rational or irrational? (**circle** **one**)
   2. Explain (how do you know)
3. State if the value is rational or irrational

4 + 7 - 5

1. Rational or Irrational? (**circle** **one**)
2. Explain (how do you know) :
3. The **product** of two **rational** numbers is **always / sometimes / never** rational. (circle the best choice)
   1. Show 2 examples of this with numbers
4. The **sum** of two **irrational** numbers is **always / sometimes / never** irrational. (circle the best choice)
   1. Show 2 examples of this with numbers
5. Use the formula given: where velocity, *v*, is cm/sec and time, *t*, is sec. What are the units for d?