Algebra

1. Match the words with the definitions below.

Algebra Variable	Coefficient Literal Part	Degree Like terms	Monomial Polynomial
	letters are often used to reprilidings, or 'q' number of bui		•
represent numbers o	is a branch of mathematir members of a specified set rs for the arithmetical operaver.	t. These symbols are used	to represent quantities so
a known value multi	is an algebraic expression plied by one or some unknown and positive whole number	wn values represented by	
D. A	is the addition or subtrac	tion of two or more mono	omials.
E. The	of a term is the expon	nent of a term.	
F. A	is a number used to multip	ly a variable.	
Ga combined to form a	are terms that contain the sar single term.	me variables raised to the	same powers. They can be
H. The	of an equation is made	up of the letters and its ex	ponents.
2. Fill in the chart b	elow		

Monomial	Coefficient	Degree	Variable	Literal Part
$3x^2y^3$				
-2abc²				

3. Find the expression.

 $5/3x^2t$

For example: I start with x, add 4 and then square the result. $(x+4)^2$

- 1. I start with x, take away 5, double the result and then divide by 3.
- 2. I start with x, multiply by 4 and then subtract t.
- 3. I start with x, add y and then double the result.
- 4. I start with a, double it and then add b.

- 5. I start with n, square it and then subtract n.
- 6. I start with x, add 2 and then square the result.
- 7. A brick weighs 'x' kg. How much do 6 bricks weigh? How much do 'n' bricks weigh?
- 8. A man shares 'x' euros between 'n' children. How much does each child receive?

4. Write an equation for the following statements:

- a. If you multiply a number by 3 and then add 4, the answer is 13
- b. The addition of a number and its consecutive is 81.
- c. If you multiply the number by 2 and then subtract 5, the answer is 4.
- d. If you subtract 11 from the number and then triple the result, the answer is 20.

Student A

Read the equation or number to partner.

1.
$$5y + 3x + 2y + 4x$$

$$2. \frac{5}{8}$$

4.
$$(x + 2) + (2x + 7) - (3x + 4)$$

5.
$$\frac{2}{3}$$

Write the equation or number that your partner reads to you.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.

Student B

Read the equation or number to partner.

1.
$$(2x + 3) - (5x - 7) - (x - 1)$$

- 2. 7/8
- 3. 19.7%
- 4. 206
- 5. 3,840,000

6.
$$(x + 2x) - (2x - x) + (3x + 5x)$$

- 7. 2,400
- 8. 4,506

Write the equation or number that your partner reads to you.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6. 7.
- 8.