

Distribute Equations #2 Math 9 Name: _____

Solve the following to complete the cheesy joke below (these ALL work out to integer answers)

$$3(5x - 4) = 8x + 2$$

$$5x + 4(3x - 8) = 4 + 13x$$

$$2(10 - 6x) = x - 8x$$

$$2x + 18 = 12 - 6(x + 7)$$

$$x - (5 - 3x) = 7x + 4$$

$$-1x - (13 + 4x) = -3(5 - 9x) + 2$$

$$8(x - 5) = 2(3x - 8)$$

$$-4(3 - 6x) = 9(2x - 2)$$

$$7(10 - 3x) = 5(15 - 4x)$$

$$6x + 3(5x - 4) = 12(2x - 5)$$

$$2(9x - 1) = 99 - 7(3 - 4x)$$

$$6(5x - 8) - 20 = 11(2x - 3) + 3x$$

WHAT IS THE ADVANTAGE OF BUYING A MAGNETIC BULLETIN BOARD?

QU	IT	HA	I	NG	SA	IS	ST	IC	AC	AN	D	OC	KS	FR	OM	S	CO	EE	RK
4	-2	-5	-11	17	7	2	13	0	-18	-1	-6	16	25	50	-3	-8	15	11	9

2) Now the following questions should be answered as a reduced fraction

a) $9(3x - 2) = 11(2x + 4)$

b) $10(3 - 8x) = -12(2x + 5)$

c) $-3(6x + 1) + 11 = 5(3x + 7)$

d) $-6(x + 5) = 4(2x - 5) + 12$

e) $3(2x + 1) - 2(x + 3) = 2(3x + 7)$

f) $5(4x + 9) + 12 = -2(3 - 7x)$

g) $-4(2x - 3) - (3x - 31) = 2(4x + 17)$

h) $6(2x - 7) - 18x = -4 - (5x - 10) - 2x$

Extend your skills and strive for excellence!up for a challenge??

1) Solve: $8(3x - 1) + 12x - 5(7 - 3x) + 12(5x - 11) + 12 = -3(5x + 6) - 19 - (12 - 7x) + 13x - 5(2x + 19) - 7$

2) A number plus 4 is multiplied by 6 and then 12 is added. This results in the number minus 13 tripled. Find the number