Translating Notes

Addition

Sum

increased by   more than

plus

Subtraction

less than, decreased by minus, less

Multiplication

product
times
double
triple

Division

quotient

Equals

is

total

Parenthesis

of
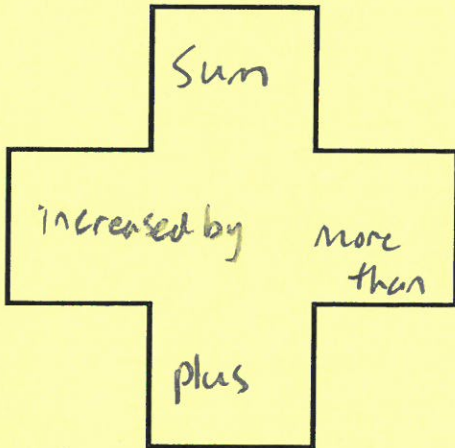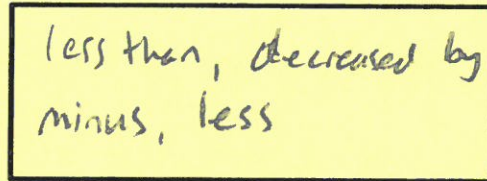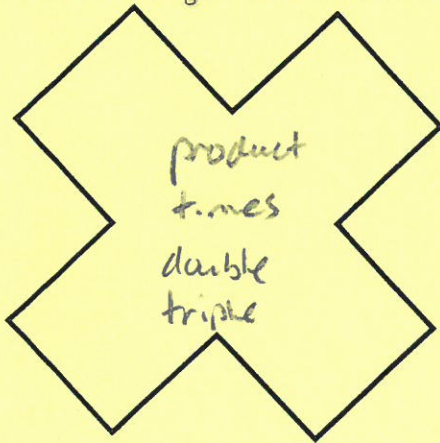
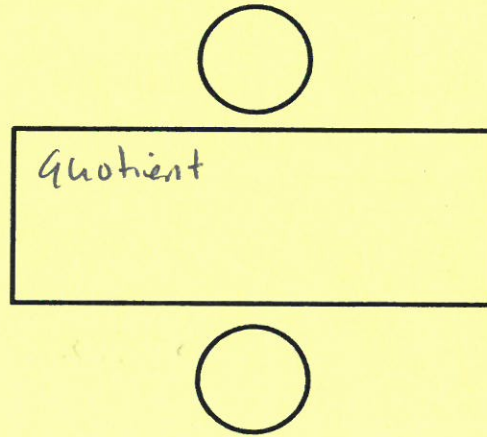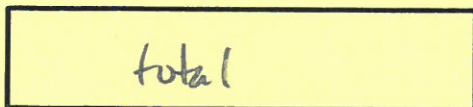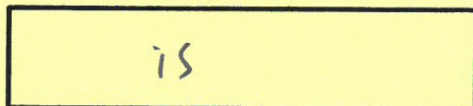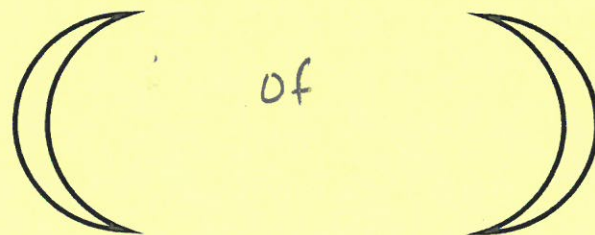**Write an expression to represent the following.**

1. m squared plus the product of 2 and h plus 3

$$m^2 + 2(h+3) \quad \text{or} \quad m^2 + 2h + 3$$

2. 9 less than k

$$k - 9$$

3. One-fifth of g is added to the product of 2 and h

$$\frac{1}{5}g + 2h$$

Write a sentence to represent the following expressions.

1. Five more than twice a number

$$2a + 5$$

2. Forty-Five decreased by one-fourth a number

$$45 - \frac{1}{4}x$$

3. the quotient of twelve less than a number and six

$$\frac{x-12}{6}$$

4. the product of seventeen and a number squared

$$17x^2$$

Create an algebraic equation or inequality to match each phrase.

1. The difference of five and a number is the same as seven times the sum of that number and three.

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

2. Five times the difference of a number and four is the same as negative five times the difference of that number and two.

$$5(x-4) = -5(x-2)$$

3. Four times the difference of twice a number and five is greater than 52.

$$4(2x-5) > 52$$

4. The sum of fourteen and a number is greater than the difference between three times a number and one.

$$14 + x > 3x - 1$$

5. Negative two times a number is the same as the sum of eight and a number multiplied by two.

$$-2x = 8 + 2x$$

6. Negative one times the difference of three and a number is equal to the sum of negative one and three times a number.

$$-1(3-x) = -1 + 3x$$

Extra Practice

1. The difference between negative five and nine times a number is equal to the sum of negative three times the number and thirteen.

$$-5 - 9x = -3x + 13$$

2. One-fourth times the difference of eight times a number and twelve is less than or equal to one-fifth times the difference of twenty-five times the number and sixty.

$$\frac{1}{4}(8x - 12) \leq \frac{1}{5}(25x - 60)$$

3. One-half the sum of ten times a number and eight is the same as one-sixth the sum of forty-eight and eighteen times the number.

$$\frac{1}{2}(10x + 8) = \frac{1}{6}(48 + 18x)$$

4. Seven less than negative five times a number is less than or equal to six more than that same number.

$$-5x - 7 \leq x + 6$$