33. Mrs. Smith wrote "Eight less than three times a number is greater than fifteen" on the board. If x represents the number, which inequality is a correct translation of this statement?

(A)
$$3x - 8 > 15$$

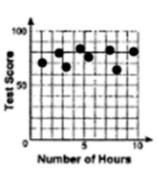
C.
$$8 - 3x > 15$$

B.
$$3x - 8 < 15$$

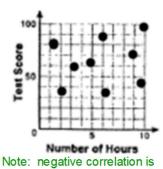
D.
$$8 - 3x < 15$$

34. There is a negative correlation between the number of hours a student watches television and his or her social studies test score. Which scatter plot below displays this correlation?

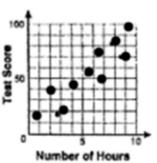
A.



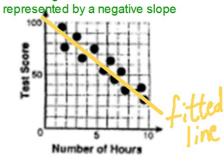
C.



B.



D. represen



35. When
$$3g^2 - 4g + 2$$
 is subtracted from $7g^2 + 5g - 1$, the difference is

A.
$$-4g^2 - 9g + 3$$

B.
$$4g^2 + g + 1$$

C.
$$4g^2 + 9g - 3$$

D. $10g^2 + g + 1$
 $7g^2 + 5g - 1 - (3g^2 - 4g + 2) = 7g^2 + 5g - 1 - 3g^2 + 4g - 2 = 4g^2 + 2g - 3$

Put the expression that you are subtracting in parentheses, because you are subtracting the whole thing. Then the signs will change as you distribute the negative one over all three terms.

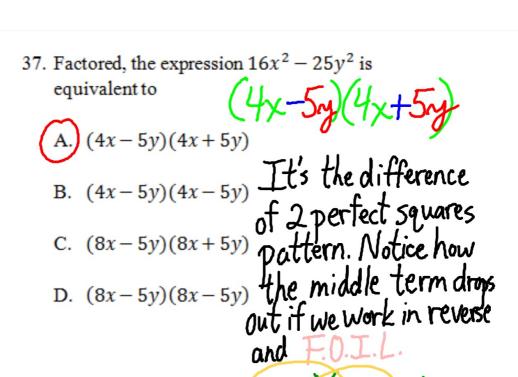
36. Factored completely, the expression $2x^2 + 10x - 12$ is equivalent to

A.
$$2(x-6)(x+1)$$
 $2x+10x-12$

B. $2(x+6)(x-1)$ $2(x+5)(x-6)$

C. $2(x+2)(x+3)$ $2(x+6)(x-1)$

D.
$$2(x-2)(x-3)$$



6x2+20xy-20xy-25y=/6x-25y

Multiply.

38. What is the product of $-3x^2y$ and $(5xy^2 + xy)$?

$$(A.)$$
 $-15x^3y^3 - 3x^3y^2$

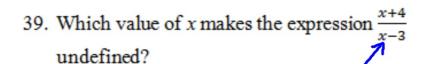
B.
$$-15x^3y^3 - 3x^3y$$

C.
$$-15x^2y^2 - 3x^2y$$

D.
$$-15x^3y^3 + xy$$

-3xy.(5xy+xy)=-15xy-3xy

Note: Multiplication is commutative, but it was easier to put the -3x²y first so that we could distribute from the front.



A. -4

 $\frac{(3)}{3} = \frac{3}{3} = \frac{7}{0}$

- В. -3
- You can't divide by zero.

40. Which expression represents $\frac{25x-125}{x^2-25}$ in simplest form?

A.
$$\frac{5}{x}$$
 C. $\frac{25}{x-5}$

B. $-\frac{5}{x}$ GCF

D. $\frac{25}{x+5}$
 $\chi^2 - 25$
 $\chi^4 - 25$

C. $\frac{25}{x-5}$
 $\chi^4 - 5$

C. $\frac{25}{x-5}$
 $\chi^5 - 5$
 $\chi^5 - 5$
 $\chi^5 - 5$
 $\chi^5 - 5$
 $\chi^5 - 5$

In the denominator, it was the difference of two squares pattern again.