Simplify each.

1. $9ab^2 + 8ab - a^2b + 4ab - 7ab^2 - 4ab$

$2ab^2 + 8ab - a^2b$

2. $6x(3x - 1) - (3x^2 - 7x - 8) + 12x - 5x^2$

$18x^2 - 6x - 3x^2 + 7x + 8 + 12x - 5x^2$

$10x^2 + 13x + 8$

3. $\frac{7}{4}w(8w^2 - 10w + 5) - 3w$

$14w^3 - \frac{35}{2}w^2 + \frac{35}{4}w - \frac{3w}{1}$

$14w^3 - \frac{35w^2}{2} + \frac{23}{4}w$

Answers to HW #7

21. $1.5q + 8$

22. $18n - 42$

23. $\frac{5}{2} - \frac{15r}{16}$

24. $-4.5b + 13.5$

25. $2w + 4$

26. $-36 + 15n$

35. $-3t$

36. $20k^2$

37. $7x$

38. $24w$

39. $5v^2$

41. $-17q$

42. $-45x$

21. $0.25(6q + 32)$ **22.** $(3n - 7)(6)$ **23.** $(8 - 3r)\frac{5}{16}$

24. $-4.5(b - 3)$ **25.** $\frac{2}{5}(5w + 10)$ **26.** $(9 - 4n)(-4)$

35. $4t - 7t$ **36.** $12k^2 + 8k^2$ **37.** $9x - 2x$ **38.** $w + 23w$

39. $-18v^2 + 23v^2$ **40.** $7m - m$ **41.** $13q - 30q$ **42.** $x - 46x$

Simplify.

1. $9c - 4(c + 7) = 9c - 4c - 28$

$= 5c - 28$

2. $4 + 3a(2a - 5) - (8a^2 + a - 11)$

$4 + 6a^2 - 15a - 8a^2 - a + 11$

$-2a^2 - 16a + 15$

3. $4(x + 7) - 3(2x - 4) = 4x + 28 - 6x + 12$

$= -2x + 40$

4. $6 + 2(4m - 9) - 12m + 10 - 5(3m + 7)$

$6 + 8m - 18 - 12m + 10 - 15m - 35$

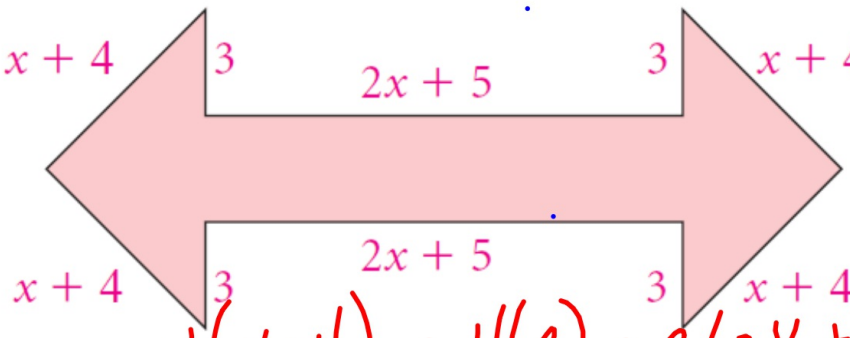
$-19m - 37$

5. $5 - 4a(2a - 3) + 6a + 2a^2 - 9$

$5 - 8a^2 + 12a + 6a + 2a^2 - 9$

$-6a^2 + 18a - 4$

Geometry . Write an expression for the perimeter of the figure below. Simplify the expression.



$4(x+4) + 4(3) + 2(2x+5)$

$4x+16+12+4x+10$

$8x+38$

YOUR FIRST TEST!

Monday, Sept. 17th!

- Over Sections 1.1 - 1.7
- Take out a sheet a paper to write out a review for yourself!

Review!

1.) There are 1760 yards in a mile. Write an equation for the number of miles in an unknown number of yards. Define your variables.

$m = 1760y$

y = yards

m = miles

2.) $7 - 10\{24 \div 6[-1 - (3 + 6 \div 2 - 5)]^2 + 5\}$

$[-1-(3+3-5)]^2$

$[-1-(1)]^2$

$7-10\{24\div 6[-2]^2+5\}$

$7-10\{24\div 6(4)+5\}$

$7-10\{4(4)+5\}$

$7-10(21)$

$7-210$

$=-203$

3.) Model each statement with an algebraic expression:

1. The product of eight and the quantity four more than a number. $8(x+4)$
2. The quotient of a number and eleven. $\frac{x}{11}$
3. Six less than three times a number. $3x-6$

4.) State ALL sets of numbers to which each belongs:

$\frac{35}{-7} = -5$ R, I

$\sqrt{23}$ Irr. } R

1.67 R

$1.454\overline{545}$ R }

$\sqrt{49} = 7$ R, W, I, N

5.) Simplify:

$4 - |-9|$

$= 4 - 9$

$= -5$

$|8| + |-10 + 6|$

$8 + |-4|$

$= 8 + 4 = 12$

6.) Evaluate for H= -6 K= -3 J =5

1. $-H - K^2 = -(-6) - (-3)^2$

$6 - 9 = -3$

6.) Evaluate for H= -6 K= -3 J =5

2. $2J^2 - HK = 2(5)^2 - (-6)(-3)$

$50 - 18 = 32$

6.) Evaluate for H= -6 K= -3 J =5

3. $HJK - K + H^2 = (-6)(5)(-3) - (-3) + (-6)^2$

$90 + 3 + 36 = 129$

No bookwork!

- IXL #3 - A.2 & I.2 due Friday, Sept. 14th!