Simplifying expressions

Grade 5 Pre-Algebra Worksheet

A. Rewrite each expression and then evaluate it for x = 3.

1. $9x - 3x - 10 =$ _____

2. $4x + 5x - 7 =$ _____

3. $4x - 2x + 14 - 3 =$ _____

4. $7x + 11 + 4x - 3x =$ _____

5. $2x + 17 + 3x - 9 + 3 =$ _____

6. $9x - 2x + 8 - 3 =$ _____

7. $13x - 5x + 18 - 9 =$ _____

8. $12x + 9 - 4x - 5 =$ _____

9. $4x + 8x - 5x + 12 - 4 =$ _____

10. $8x - 2x - 4x + 13 - 3 + 5 =$ _____

B. Rewrite each expression and then evaluate it for y = 5.

1. $13y - 6y =$ _____

2. $16y + 11 - 7y - 6 =$ _____

3. $9y - 5y - 11 =$ _____

4. $3y + 16 + 8y - 2y - 7 =$ _____

5. $9y + 5 - 2y - 2 + 3 =$ _____

6. $11y - 6y + 13 =$ _____

7. $8y + 9 - 4y + 9y - 5 =$ _____

8. $7y + y - 5y + 12 - 5 + 6 =$ _____

9. $4y + 3 + 2y - 3y + 11 - 8 =$ _____

10. $12y - 6y + 12 - 3y - 7 =$ _____

Simplifying expressions

A. Rewrite each expression and then evaluate it for x = 3.

1. $9x - 3x - 10 = \underline{6x - 10 = 8}$

6. $9x - 2x + 8 - 3 = \underline{7x + 5 = 26}$

2. $4x + 5x - 7 = \underline{9x - 7 = 20}$

7. $13x - 5x + 18 - 9 = \underline{8x + 9 = 33}$

3. $4x - 2x + 14 - 3 = \underline{2x + 11 = 17}$

8. $12x + 9 - 4x - 5 = \underline{8x + 4 = 28}$

4. $7x + 11 + 4x - 3x = \underline{8x + 11 = 35}$

9. $4x + 8x - 5x + 12 - 4 = \underline{7x + 8 = 29}$

5. $2x + 17 + 3x - 9 + 3 = \underline{5x + 11 = 26}$

10. $8x - 2x - 4x + 13 - 3 + 5 = \underline{2x + 15 = 21}$

B. Rewrite each expression and then evaluate it for y = 5.

1. $13y - 6y = \underline{7y = 35}$

6. $11y - 6y + 13 = \underline{5y + 13 = 38}$

2. $16y + 11 - 7y - 6 = \underline{9y + 5 = 50}$

7. $8y + 9 - 4y + 9y - 5 = \underline{13y + 4 = 69}$

3. $9y - 5y - 11 = \underline{4y - 11 = 9}$

8. $7y + y - 5y + 12 - 5 + 6 = \underline{3y + 13 = 28}$

4. $3y + 16 + 8y - 2y - 7 = \underline{9y + 9 = 54}$

9. $4y + 3 + 2y - 3y + 11 - 8 = \underline{3y + 6 = 21}$

5. $9y + 5 - 2y - 2 + 3 = \underline{7y + 6 = 41}$

10. $12y - 6y + 12 - 3y - 7 = \underline{3y + 5 = 20}$