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**HW 3-2****Int 1****Simplifying Like Terms****Unit 3****Simplify each expression.**

1.  $8y + 2y$

9.  $14 + 3u - 10$

15.  $5x^2 - 2x^2 - 6x$

2.  $5x + x$

10.  $6d + d + 15$

16.  $3b^2 + b^3 + 4b^3$

3.  $d + 10d$

11.  $6t + 4y - 3y + 3t$

17.  $13 - 2z^3 + 2 + z^2$

4.  $z + z$

12.  $14 + 9h + 3 - 2h$

18.  $y^2 + 9 - y^3 + 4y^2$

5.  $9m + 2m + 3m$

13.  $7 + g + g - 7$

19.  $12y - 8 + 4y + y$

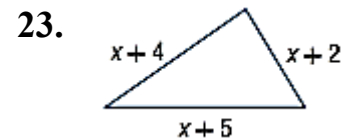
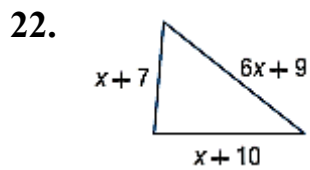
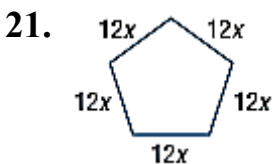
6.  $10r + 100s + 50r$

14.  $7rt - 3rt + 6y$

20.  $-m + 2n + 4m - n$

7.  $15a + 7j - 8$

8.  $5r + 9y - 2r$

**Simplify the perimeter of each polygon below.**

You are at the grocery store buying food for a party. You pick up 10 pizzas, 5 sodas and 6 ice creams. You decide to put back 2 ice creams and get 2 more pizzas.

24. Write an expression that represents your shopping trip.

25. Simplify the expression you wrote in the previous question.

**MULTIPLE CHOICE:** Simplify the expression by combining like terms.

26.  $7b - 3b + 4$   
a)  $10b + 4$       b)  $8b$       c)  $4b + 4$       d)  $-4b + 4$

27.  $9x + x - 4x + x$   
a)  $7x$       b)  $x^2 + 5x$       c)  $5x$       d)  $x^2 - 5x$

28.  $6a - 3a - a - 12$   
a)  $3a - a - 12$       b)  $3a - 12$       c)  $2a - 12$       d)  $3a - 13$

29.  $x + x + x + 1$   
a)  $x + 1$       b)  $x^3 + 1$       c)  $4x$       d)  $3x + 1$

**MULTIPLE CHOICE:** Evaluate the expression if  $x = -2$ ,  $y = 3$ ,  $z = -4$ .

30.  $9x - y^2$   
a) 12      b) -27      c) -24      d) -9

31.  $-4x + 5y + 6z$   
a) -46      b) 6      c) 19      d) -1

**REVIEW QUESTIONS:**

32. Write  $\frac{5}{18}$  as a decimal.

33. Write -12.48 as a fraction in simplest form.