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HW 3-1**Int 1****Variables & Introduction to Expressions****Unit 3**

Evaluate each expression if $a = -4$, $b = 2$, $x = 3$, and $y = -6$.

1. $y - a$

8. xy^2

15. $\frac{a}{b} + y$

2. $y - b$

9. $|ab + y|$

16. $\frac{a+y}{b}$

3. $x^2 + y$

10. $|ax - b|$

17. $5a$

4. $a^2 + b$

11. $bx - y$

18. $4b^3$

5. ab

12. $xy + ab$

19. $\frac{(5+x)^2}{b}$

6. $|ax|$

13. $\frac{y}{b}$

20. $6b - 3a$

7. $|bx|$

14. $\frac{y}{x}$

Evaluate each expression if $a = 5$, $b = 3$, $x = -2$, and $y = 4$.

21. $7a$

22. $8b - 4a$

23. $ax^2 + b$

24. $x^3 + y^2$

25. You go to the store and want to purchase 3 packages of pencils and 2 erasers.

- What variable(s) do you want to use and what do they mean?
- Write an expression to model this situation.
- If a package of pencils cost \$1.25 and each eraser cost \$0.45, how much would you spend on pencils and erasers?

26. Jayden goes to the batting cage. He purchases three tokens and rents a helmet. If he spends a total of \$6.50, how much does each token cost?

Batting Cage Prices	
Tokens	■
Helmet Rental	\$2



27. A Jalapeno McDouble at McDonald's has 430 calories, a medium fry has 380 calories, and a regular size Dr. Pepper has 210 calories.

- A) What variables do you want to use and what do they mean?

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- B) Mr. Amari orders two orders a regular Dr. Pepper, 2 medium fries, and 3 Jalapeno McDoubles. **Write an expression to model this situation.**

- C) How many calories did Mr. Amari consume?

28) $2\frac{1}{4} \div 1\frac{1}{8}$

29) $\frac{\frac{19}{42}}{\frac{13}{14}}$

30) $-3\frac{4}{9} + 8\frac{1}{3}$

- 31) Write "nineteen twenty-fifths" as a decimal:

- 32) Put the following in order from least to greatest: $\left\{ \frac{49}{64}, \frac{7}{9}, 0.73, \frac{3}{4} \right\}$

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