

3.1 & 3.2 Review Sheet

Complete in your spiral. Remember: Copy the Problem. Show all work!

Identify the terms, coefficients, and constants in the expression.

1. $3 + c + e$ terms: 3, c, e constants: 3
coefficients: 1, 1
2. $5m + 9$ terms: 5m, 9 constants: 9 coefficients: 5
3. $3p^2 + 7$ terms: $3p^2$, 7 constants: 7 coefficients: 3

Evaluate the expression when $c = 4$, $d = 6$, and $e = 10$

4. $7d$ (4) $7d$ (5) $\frac{24}{c} - d$ (6) $4c + 3d$ (7) $\frac{3e}{c+1}$
5. $\frac{24}{c} - d$ $\frac{24}{7(6)} - 6$ $\frac{24}{4} - 6$ $4(4) + 3(6)$ $\frac{3(10)}{4+1} = \frac{30}{5} = 6$
6. $4c + 3d$ $4(4) + 3(6)$ $16 + 18$
7. $\frac{3e}{c+1}$ $\frac{3(10)}{4+1} = \frac{30}{5} = 6$

Evaluate the expression when $x = 12$, $y = 5$, and $z = 2$

8. $\frac{x}{6} + 7z$ (8) $\frac{x}{6} + 7z$ (9) $\frac{x \cdot y}{6} - 3z$
9. $\frac{xy}{6} - 3z$ $\frac{12}{6} + 7(2)$ $\frac{12(5)}{6} - 3(2)$ $\frac{60}{6} - 6$
10. A summer job pays \$15 per hour.

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- a. Write an expression for the amount of money you will earn working h hours. $15h$
- b. You work 12 hours. How much money do you make? $15(12)$ 180
- c. After working 22 hours, do you have enough money to buy a new video game system for \$350?

Write the phrase as an expression.

11. The quotient of a number and 4 $\frac{n}{4}$
12. 7 fewer than k $k - 7$
13. The difference of a 11 and d $11 - d$

Write two phrases for the expression

14. $x + 8$ x increased by 8
 8 more than x
15. $20 - n$ 20 decreased by a number
 n less than 20

Write the phrase as an expression.

16. Twelve more than the product of 5 and a number $12 + 5n$
17. The quotient of a number and 3 increased by 7 $(x \div 3) + 7$
18. 15 decreased by the product of a number and 4 $15 - 4n$

19. Your uncle is two years older than 3 times your age.

- a. You are x years old. Write an expression to describe your uncle's age. $3x + 2$
- b. You are 12 years old. How old is your uncle? $3(12) + 2$
 $36 + 2$ 38 years old

20. Your friend has read 6 more than twice as many pages as your sister has read.

- a. Let x be the number the pages your sister has read. Write an expression for the number of pages your friend has read. $6 + 2x$
- b. Your sister read 32 pages. How many pages did your friend read?

$$6 + 2(32)$$

$$6 + 64$$

70 pages