

## Math 6 - Unit 3: Expressions

Evaluating Expressions Practice Sheet pg. 1

Name: \_\_\_\_\_

Class Period: 1 2 3 4 Date: \_\_\_\_\_

Evaluate each expression if  $m = 6$  and  $n = 12$ .

1.  $m + 5$

2.  $n - 7$

3.  $m \cdot 4$

4.  $m + n$

5.  $n - m$

6.  $12 \div n$

7.  $9 \cdot n$

8.  $n \div m$

9.  $2m + 5$

10.  $4m - 17$

11.  $36 - 6m$

12.  $3n + 8$

Evaluate each expression if  $a = 9$ ,  $b = 3$ , and  $c = \frac{1}{3}$

13.  $a^2 \div 3$

14.  $15b + a^2$

15.  $b^2 + 4 \cdot 6$

16.  $a^2 - 2b^2$

17.  $a^2 + 30 - 18$

18.  $b^2 + 5a - 20$

19.  $b^3 + c$

20.  $19 + 6a \div 2$

21.  $4b^2 \cdot 3$

22.  $3c \div (2b^2)$

23.  $a^2 - (3c)$

24.  $ac \div (2b)$

25. **ANIMALS** A Gentoo penguin can swim at a rate of 17 miles per hour. How many miles can a penguin swim in 4 hours? Use the expression  $rt$ , where  $r$  represents rate and  $t$  represents time.

26. **CLOTHING** A company charges \$6 to make a pattern for an order of T-shirts and \$11 for each T-shirt it produces from the pattern. The expression  $\$11n + \$6$  represents the cost of  $n$  T-shirts with the same pattern. Find the total cost for 5 T-shirts with the same pattern.

## Math 6 - Unit 3: Expressions

### Evaluating Expressions Practice Sheet pg. 2

Name: \_\_\_\_\_

Class Period: 1 2 3 4 Date: \_\_\_\_\_

Evaluate each expression if  $m = 2$  and  $n = 4$ .

1.  $m + m$

2.  $n - m$

3.  $mn$

4.  $3m + 5$

5.  $2n + 2m$

6.  $m \cdot 0$

7.  $64 \div n$

8.  $12 - m$

9.  $5n \div m$

10.  $6mn$

11.  $4n - 3$

12.  $n \div m + 8$

Evaluate each expression if  $a = 0.3$ ,  $b = 4$ , and  $c = 1.2$ .

13.  $a + b$

14.  $c - a$

15.  $a + b + c$

16.  $b - a$

17.  $c - a \cdot b$

18.  $a + 2 \cdot b$

19.  $b + c \div 2$

20.  $ab$

21.  $25 + c \div b$

22.  $c \div a + 10$

23.  $2b - a$

24.  $2ab$

## Math 6 - Unit 3: Expressions

Evaluating Expressions Practice Sheet pg. 1

### ANSWER KEY

Name: \_\_\_\_\_

Class Period: 1 2 3 4 Date: \_\_\_\_\_

Evaluate each expression if  $m = 6$  and  $n = 12$ .

1.  $m + 5$  **11**

2.  $n - 7$  **5**

3.  $m \cdot 4$  **24**

4.  $m + n$  **18**

5.  $n - m$  **6**

6.  $12 \div n$  **1**

7.  $9 \cdot n$  **108**

8.  $n \div m$  **2**

9.  $2m + 5$  **17**

10.  $4m - 17$  **7**

11.  $36 - 6m$  **0**

12.  $3n + 8$  **44**

Evaluate each expression if  $a = 9$ ,  $b = 3$ , and  $c = \frac{1}{3}$

13.  $a^2 \div 3$  **27**

14.  $15b + a^2$  **126**

15.  $b^2 + 4 \cdot 6$  **33**

16.  $a^2 - 2b^2$  **63**

17.  $a^2 + 30 - 18$  **93**

18.  $b^2 + 5a - 20$  **34**

19.  $b^3 + c$   **$27\frac{1}{3}$**

20.  $19 + 6a \div 2$  **46**

21.  $4b^2 \cdot 3$  **108**

22.  $3c \div (2b^2)$   **$\frac{1}{18}$**

23.  $a^2 - (3c)$  **80**

24.  $ac \div (2b)$   **$\frac{1}{2}$**

25. **ANIMALS** A Gentoo penguin can swim at a rate of 17 miles per hour. How many miles can a penguin swim in 4 hours? Use the expression  $rt$ , where  $r$  represents rate and  $t$  represents time.

**68 miles**

26. **CLOTHING** A company charges \$6 to make a pattern for an order of T-shirts and \$11 for each T-shirt it produces from the pattern. The expression  $\$11n + \$6$  represents the cost of  $n$  T-shirts with the same pattern. Find the total cost for 5 T-shirts with the same pattern.

**\$61**

## Math 6 - Unit 3: Expressions

Evaluating Expressions Practice Sheet pg. 2

### ANSWER KEY

Name: \_\_\_\_\_

Class Period: 1 2 3 4 Date: \_\_\_\_\_

Evaluate each expression if  $m = 2$  and  $n = 4$ .

1.  $m + m$  **4**

2.  $n - m$  **2**

3.  $mn$  **8**

4.  $3m + 5$  **11**

5.  $2n + 2m$  **12**

6.  $m \cdot 0$  **0**

7.  $64 \div n$  **16**

8.  $12 - m$  **10**

9.  $5n \div m$  **10**

10.  $6mn$  **48**

11.  $4n - 3$  **13**

12.  $n \div m + 8$  **10**

Evaluate each expression if  $a = 0.3$ ,  $b = 4$ , and  $c = 1.2$ .

13.  $a + b$  **4.3**

14.  $c - a$  **0.9**

15.  $a + b + c$  **5.5**

16.  $b - a$  **3.7**

17.  $c - a \cdot b$  **0**

18.  $a + 2 \cdot b$  **8.3**

19.  $b + c \div 2$  **4.6**

20.  $ab$  **1.2**

21.  $25 + c \div b$  **25.3**

22.  $c \div a + 10$  **14**

23.  $2b - a$  **7.7**

24.  $2ab$  **2.4**