

1.6

Homework

Show all of your work on a separate sheet of paper.

Essential Question Is the product of two integers *positive*, *negative*, or *zero*? How can you tell?

Multiply.

1. $(-8)(-12)$ 2. $10 \cdot (-14)$ 3. $-21 \cdot 4$ 4. $-15 \cdot (-8)$

5. The water in a pool evaporates at a rate of 16 gallons per week. What integer represents the change in the number of gallons of water in the pool after 24 weeks?

Multiply.

6. $5 \cdot (-11) \cdot (-4)$ 7. $-15(-3)(-6)$ 8. $-9 \cdot 0 \cdot (-3)$

9. $13 \cdot 2 \cdot (-6)$ 10. $-16 \cdot 2 \cdot (-3)$ 11. $-9(-9)(-9)$

Evaluate the expression.

12. $(-12)^2$ 13. -12^2 14. $(-7)^3$

15. $-(-2)^3$ 16. $(-2)^3 \cdot (-3)^2$ 17. $(-11)^2 \cdot 7$

18. $-|-3| \cdot (-6)$ 19. $11(-3) - (-2)(7)$ 20. $-5 \cdot 8 - (-4)^3$

21. The gym offers a discount when more than one member of the family joins. The first member ($n = 0$) pays \$550 per year. The second member to join ($n = 1$) gets a discount of \$75 per year. The third member ($n = 2$) gets an additional \$75 discount. The price for the n th member is given by $550 + (-75n)$.

- What is the price for the fourth member to join ($n = 3$)?
- For a large family, is it possible that a member would join for free? If so, which member would it be? Explain your reasoning.
- Other than \$0, what is the lowest amount that a member would pay to join? Which member would it be? Explain your reasoning.

Name: _____

Date: _____

Mr. Williams

Class: _____

I can multiply integers.

Exit Ticket

1) Find the product of each expression.

a) $(-8)(-2)$

b) $(9)(-9)$

1. **Fill in the blanks.**

a) The product of a negative integers and a positive integer is _____.

b) The product of an integer with both the same signs is always a _____.

2. Alec is scuba diving. He descends 5 feet below sea level. He descends the same distance 4 more times. What is Alec's final evaluation?

Solution: _____

Name: _____

Date: _____

Mr. Williams

Class: _____

I can multiply integers.

Exit Ticket

1) Find the product of each expression.

c) $(-8)(-2)$

d) $(9)(-9)$

3. **Fill in the blanks.**

c) The product of a negative integers and a positive integer is _____.

d) The product of an integer with both the same signs is always a _____.

4. Alec is scuba diving. He descends 5 feet below sea level. He descends the same distance 4 more times. What is Alec's final evaluation?

Solution: _____