

Objectives: I can solve problems by multiplying and dividing integers.

Multiplying and Dividing Integers

Rules for multiplying & dividing integers:

If the signs are the same: positive

If the signs are different: negative

Multiplication answer is a product.

Division answer is a quotient.

Practice

Solve.

1. $-6 \cdot (-2)$ 12

2. $5 \cdot -3$ -15

3. $3 \cdot -5$ -15

4. $-2 \cdot -3$ 6

5. $5 \div (-1)$ -5

6. $-24 \div -3$ 8

7. $3 \cdot (-10)$ -30

8. $\frac{-36}{-9}$ 4

9. $-6 \cdot 4$ -24

10. $-2 \cdot 10 \cdot (-4)$ 80

11. $10 \cdot (-6) \cdot (-2) \cdot (5)$ 600

12. $\frac{54}{-6}$ -9

Homework

Find each product or quotient.

1. $4 \cdot (-12)$ _____

2. $-24 \div (-6)$ _____

3. $8 \cdot (-6)$ _____

4. $\frac{-15}{5}$ _____

5. $-4 \cdot (-7)$ _____

6. $-12 \div 2$ _____

7. $-5 \cdot 8$ _____

8. $\frac{-34}{-34}$ _____

9. $7 \cdot (-6)$ _____

10. $-25 \div 5$ _____

11. $-6 \cdot (-15)$ _____

12. $\frac{10}{-2}$ _____

13. $-7 \cdot -3$ _____

14. $12 \div 2$ _____

15. $7 \cdot -11$ _____

16. $-80 \div (-8)$ _____

17. $30 \cdot (-6)$ _____

18. $\frac{-50}{5}$ _____

19. $-10 \cdot 2 \cdot (-3)$ _____

20. $-50 \div 10 \cdot (-5)$ _____

Evaluate if $w = -2$, $x = -10$, $y = 16$, & $z = 8$.

21. wx

22. wxy

23. $\frac{z}{w}$

24. xy

Name _____

Practice

Review Integer Ops.

Find each sum, difference, product, or quotient.

1. $-135 \div 15$ _____ 2. $-57 + 29$ _____ 3. $3 \cdot (-5)$ _____

4. $21 - (-137)$ _____ 5. $64 + (-8)$ _____ 6. $-76 + (-84)$ _____

7. $-20 \cdot (-16)$ _____ 8. $-40 - 28$ _____ 9. $-30 \div 3$ _____

10. $-26 + (-31)$ _____ 11. $-5 \cdot 2$ _____ 12. $38 - 59$ _____

13. $96 \div 8$ _____ 14. $30 + (-60)$ _____ 15. $8 \cdot (-2)$ _____

Evaluate each expression.

16. $6 + (-4) - (-8)$ _____ 17. $3 \cdot (-5) \cdot 7$ _____ 18. $-6 \cdot 10 \div (-15)$ _____

19. $-3 + (-7) \cdot (-4)$ _____ 20. $64 \div (-4) + 12$ _____ 21. $-28 \div (-7) \cdot (-4)$ _____

22. $4 \cdot (-9) - (-25)$ _____ 23. $-2 + (-9) - (-15)$ _____ 24. $36 \div (-12) + (-6)$ _____