

Multiplying & Dividing Integers Worksheet

Rules for Multiplying & Dividing Integers

Same signs → Positive answer

$$(+)\times(+)=(+)$$

$$(-)\times(-)=(+)$$

$$(+)\div(+)=(+)$$

$$(-)\div(-)=(+)$$

Different signs → Negative answer

$$(+)\times(-)=(-)$$

$$(-)\times(+)=(-)$$

$$(+)\div(-)=(-)$$

$$(-)\div(+)=(-)$$

Part A: Multiply the Integers: Find each product.

1. $6 \times 4 =$ _____

2. $(-7) \times 3 =$ _____

3. $(-8) \times (-5) =$ _____

4. $9 \times (-2) =$ _____

5. $(-12) \times (-4) =$ _____

6. $(-6) \times 7 =$ _____

7. $15 \times (-3) =$ _____

8. $(-9) \times (-9) =$ _____

9. $11 \times 5 =$ _____

10. $(-14) \times 2 =$ _____

Part B: Divide the Integers: Find each quotient.

11. $24 \div 6 =$ _____

12. $(-35) \div 5 =$ _____

13. $(-48) \div (-6) =$ _____

14. $54 \div (-9) =$ _____

15. $(-72) \div 8 =$ _____

16. $(-81) \div (-9) =$ _____

17. $90 \div (-10) =$ _____

18. $(-63) \div 7 =$ _____

19. $100 \div (-20) =$ _____

20. $(-56) \div (-7) =$ _____

Part C: Word Problems: Solve each problem.

21. A submarine descends 8 feet every minute for 6 minutes. Representing descent as a negative number, what is the total change in depth?

Answer: _____

22. The temperature drops 4 degrees each hour for 5 hours. What is the total change in temperature?

Answer: _____

23. A debt of \$72 is divided equally among 8 people. What integer represents each person's share?

Answer: _____

24. A football team loses 15 yards on each of 3 plays. What is the total change in yards?

Answer: _____

25. A diver is 56 feet below sea level. If this depth is divided into 7 equal sections, what integer represents each section?

Answer: _____

Part D: Mixed Practice: Find each answer.

26. $(-3) \times 12 = \underline{\hspace{2cm}}$

27. $(-96) \div (-12) = \underline{\hspace{2cm}}$

28. $7 \times (-8) = \underline{\hspace{2cm}}$

29. $(-90) \div 10 = \underline{\hspace{2cm}}$

30. $(-11) \times (-6) = \underline{\hspace{2cm}}$

31. $84 \div (-7) = \underline{\hspace{2cm}}$

32. $(-13) \times 4 = \underline{\hspace{2cm}}$

33. $(-64) \div (-8) = \underline{\hspace{2cm}}$

34. $5 \times (-15) = \underline{\hspace{2cm}}$

35. $(-108) \div 12 = \underline{\hspace{2cm}}$