

Division & Multiplication of Integers Worksheet

Integer Rules Review - Multiplication & Division Sign Rules

Sign of Numbers	Result
Positive $\times$ Positive	- Positive
Negative $\times$ Negative	- Positive
Positive $\times$ Negative	- Negative
Negative $\times$ Positive	- Negative

****The same rules apply to division.**

Part A: Multiplying Integers: Find each product.

- | | |
|--------------------------------|---------------------------------|
| 1. $7 \times 4 =$ _____ | 7. $9 \times (-7) =$ _____ |
| 2. $(-8) \times 5 =$ _____ | 8. $(-10) \times (-8) =$ _____ |
| 3. $(-6) \times (-9) =$ _____ | 9. $13 \times 6 =$ _____ |
| 4. $12 \times (-3) =$ _____ | 10. $(-14) \times 4 =$ _____ |
| 5. $(-11) \times (-2) =$ _____ | 11. $(-5) \times (-12) =$ _____ |
| 6. $(-4) \times 15 =$ _____ | 12. $16 \times (-5) =$ _____ |

Part B: Dividing Integers: Find each quotient.

- | | |
|-------------------------------|--------------------------------|
| 13. $42 \div 6 =$ _____ | 19. $96 \div (-12) =$ _____ |
| 14. $(-56) \div 8 =$ _____ | 20. $(-45) \div 5 =$ _____ |
| 15. $(-72) \div (-9) =$ _____ | 21. $(-64) \div (-8) =$ _____ |
| 16. $63 \div (-7) =$ _____ | 22. $121 \div (-11) =$ _____ |
| 17. $(-100) \div 10 =$ _____ | 23. $(-144) \div 12 =$ _____ |
| 18. $(-81) \div (-9) =$ _____ | 24. $(-90) \div (-15) =$ _____ |

Part C: Mixed Practice: Find each answer.

- | | |
|--------------------------------|---------------------------------|
| 25. $(-7) \times 8 =$ _____ | 32. $(-84) \div 7 =$ _____ |
| 26. $(-54) \div 6 =$ _____ | 33. $(-6) \times (-11) =$ _____ |
| 27. $(-9) \times (-4) =$ _____ | 34. $72 \div (-8) =$ _____ |
| 28. $80 \div (-10) =$ _____ | 35. $(-16) \times 3 =$ _____ |
| 29. $(-12) \times 7 =$ _____ | 36. $(-99) \div (-11) =$ _____ |
| 30. $(-63) \div (-9) =$ _____ | |
| 31. $15 \times (-5) =$ _____ | |

Part D: Word Problems

37. A submarine descends 12 feet per minute for 5 minutes. What is the total change in depth?

Answer: _____

38. A temperature drops 6 degrees each hour for 7 hours. What is the total change in temperature?

Answer: _____

39. A debt of \$96 is divided equally among 12 people. What integer represents each person's share?

Answer: _____

40. A football team loses 8 yards on each of 6 plays. What is the total change in yards?

Answer: _____

41. A diver is 90 feet below sea level. If that depth is divided into 9 equal sections, what integer represents each section?

Answer: _____

Challenge Problems

42. $(-4) \times (-5) \times 3 = \underline{\hspace{2cm}}$

43. $144 \div (-12) \div 2 = \underline{\hspace{2cm}}$

44. $(-2) \times 9 \times (-6) = \underline{\hspace{2cm}}$

45. $(-180) \div (-15) \div 4 = \underline{\hspace{2cm}}$

46. $(-7) \times (-3) \times (-2) = \underline{\hspace{2cm}}$

47. $(-120) \div 10 \div (-3) = \underline{\hspace{2cm}}$

48. $(-5) \times 8 \times (-4) = \underline{\hspace{2cm}}$

49. $(-96) \div (-8) \div (-2) = \underline{\hspace{2cm}}$

50. $(-3) \times (-7) \times (-5) = \underline{\hspace{2cm}}$