Multiplying & Dividing Integers Worksheet

Rules for Multiplying & Dividing Integers

Same signs → Positive answer	Different signs → Negative answer
(+) × (+) = (+)	(+) × (−) = (−)
(−) × (−) = (+)	(−) × (+) = (−)
(+) ÷ (+) = (+)	(+) ÷ (−) = (−)
(−) ÷ (−) = (+)	(−) ÷ (+) = (−)

Part A: Multiply the Integers: Find each product.

1. 6 × 4 = _____
2. (-7) × 3 = _____
3. (-8) × (-5) = _____
4. 9 × (-2) = _____
5. (-12) × (-4) = _____
6. (-6) × 7 = _____
7. 15 × (-3) = _____
8. (-9) × (-9) = _____
9. 11 × 5 = _____
10. (-14) × 2 = _____

Part B: Divide the Integers: Find each quotient.

11. 24 ÷ 6 = _____
12. (-35) ÷ 5 = _____
13. (-48) ÷ (-6) = _____
14. 54 ÷ (-9) = _____
15. (-72) ÷ 8 = _____
16. (-81) ÷ (-9) = _____
17. 90 ÷ (-10) = _____
18. (-63) ÷ 7 = _____
19. 100 ÷ (-20) = _____
20. (-56) ÷ (-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: _____

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Part D: Mixed Practice: Find each answer.

26. $(-3) \times 12 =$ _____

27. $(-96) \div (-12) =$ _____

28. $7 \times (-8) =$ _____

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

30. $(-11) \times (-6) =$ _____

31. $84 \div (-7) =$ _____

32. $(-13) \times 4 =$ _____

33. $(-64) \div (-8) =$ _____

34. $5 \times (-15) =$ _____

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

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