

Multiplying and Dividing Integers

 Assignment

Find the product of each expression below using the rules for multiplying integers.

1. $-55 * (-4) =$ 2. $17 * (-14) =$ 3. $-12 * 20 =$

4. $-20 * (-11) =$ 5. $10 * 65 =$ 6. $100 * (-15) =$

Find the quotient of each expression below using the rules for dividing integers.

7. $-125 \div (-25) =$ 8. $165 \div (-3) =$ 9. $\frac{-200}{10} =$

10. $-120 \div (-12) =$ 11. $-7,921 \div 89 =$ 12. $\frac{96}{-6} =$

Solve each expression below.

13. $(-81) \div (-27) * (-4) =$ 14. $2,744 \div (-14) * (-13) =$

15. $12 * (-12) \div [-44 \div 44]^2 =$ 16. $[-48 \div 2]^2 * [12 \div (-6)]^2 =$

Multiplying and Dividing Integers

 Assignment

Solve each expression below using the order of operations.

17. $(-81) + (-12) * 5 - (-289) \div 17 =$ 18. $126 \div (-3) + (-11) * (-18) =$

19. $12 * (-12) + [-256 \div 16]^2 =$ 20. $[40 \div (-8)]^2 - [10 * (-2)]^2 + 21 =$

WORD PROBLEMS

21. In May, Ana made one deposit of \$ **200** to her savings account and made 3 withdrawals of \$ **50** each. How much money she had in her account at the end of May?
22. A bus had 30 passengers. At each of the next 3 stops on the route, 6 passengers got off the bus. At the fifth stop, 10 passengers got on the bus. How many passengers were on the bus after the fifth stop?

Multiplying and Dividing Integers

Assignment

ANSWERS

Find the product of each expression below using the rules for multiplying integers.

1. $-55 * (-4) =$

$-55 * (-4) = 220$

2. $17 * (-14) =$

$17 * (-14) = -238$

3. $-12 * 20 =$

$-12 * 20 = -240$

4. $-20 * (-11) =$

$-20 * (-11) = 220$

5. $10 * 65 =$

$10 * 65 = 650$

6. $100 * (-15) =$

$100 * (-15) = -1,500$

Find the quotient of each expression below using the rules for dividing integers.

7. $-125 \div (-25) =$

$-125 \div (-25) = 5$

8. $165 \div (-3) =$

$165 \div (-3) = -55$

9. $\frac{-200}{10} =$

$\frac{-200}{10} = -20$

10. $-120 \div (-12) =$

$-120 \div (-12) = 10$

11. $-7,921 \div 89 =$

$-7,921 \div 89 = -89$

12. $\frac{96}{-6} =$

$\frac{96}{-6} = -16$

Solve each expression below.

13. $(-81) \div (-27) * (-4) =$

$$\begin{aligned} &(-81) \div (-27) * (-4) = \\ &= 3 * (-4) = \\ &= -12 \end{aligned}$$

14. $2,744 \div (-14) * (-13) =$

$$\begin{aligned} &2,744 \div (-14) * (-13) = \\ &= (-196) * (-13) = \\ &= 2,548 \end{aligned}$$

15. $12 * (-12) \div [-44 \div 44]^2 =$

$$\begin{aligned} &12 * (-12) \div [-44 \div 44]^2 = \\ &= -144 \div [-1]^2 = \\ &= -144 \div 1 = \\ &= -144 \end{aligned}$$

16. $[-48 \div 2]^2 * [12 \div (-6)]^2 =$

$$\begin{aligned} &[-48 \div 2]^2 * [12 \div (-6)]^2 = \\ &= [-24]^2 * [-2]^2 = \\ &= 576 * 4 = \\ &= 2,304 \end{aligned}$$

Multiplying and Dividing Integers Assignment

Solve each expression below using the order of operations.

17. $(-81) + (-12) * 5 - (-289) \div 17 =$

$$\begin{aligned} & (-81) + (-12) * 5 - (-289) \div 17 = \\ & = (-81) + (-60) - (-17) = \\ & = (-141) - (-17) = \\ & = (-141) + 17 = \\ & = -124 \end{aligned}$$

18. $126 \div (-3) + (-11) * (-18) =$

$$\begin{aligned} & 126 \div (-3) + (-11) * (-18) = \\ & = -42 + 198 = \\ & = 156 \end{aligned}$$

19. $12 * (-12) + [-256 \div 16]^2 =$

$$\begin{aligned} & 12 * (-12) + [-256 \div 16]^2 = \\ & = 12 * (-12) + [-16]^2 = \\ & = 12 * (-12) + 256 = \\ & = -144 + 256 = \\ & = 112 \end{aligned}$$

20. $[40 \div (-8)]^2 - [10 * (-2)]^2 + 21 =$

$$\begin{aligned} & [40 \div (-8)]^2 - [10 * (-2)]^2 + 21 = \\ & = [-5]^2 - [-20]^2 + 21 = \\ & = 25 - 400 + 21 = \\ & = 25 + (-400) + 21 = \\ & = -375 + 21 = \\ & = -354 \end{aligned}$$

WORD PROBLEMS

21. In May, Ana made one deposit of \$ 200 to her savings account and made 3 withdrawals of \$ 50 each. How much money she had in her account at the end of May?

$$\begin{aligned} & \$200 - 3 * \$50 = \\ & \$200 - \$150 = \$50 \end{aligned}$$

At the end of May she had **\$50.**

22. A bus had 30 passengers. At each of the next 3 stops on the route, 6 passengers got off the bus. At the fifth stop, 10 passengers got on the bus. How many passengers were on the bus after the fifth stop?

$$\begin{aligned} & 30 - 3 * 6 + 10 = \\ & = 30 - 18 + 10 = \\ & = 12 + 10 = \\ & = 22 \end{aligned}$$

On the bus after the fifth stop were **22** passengers.