

Multiplying and Dividing Real Numbers Assignment

Find the product.

1. $(4)(-5)$

2. $(-1)(-5)\left(\frac{6}{25}\right)$

3. $(13)(-2)\left(-\frac{6}{7}\right)(21)$

4. $(12)\left(\frac{8}{144}\right)(6)(2)$

5. $(-20)(-7)$

6. $(-4)(-8)\left(\frac{3}{4}\right)$

Find the quotient.

7. $(-90) \div \left(-\frac{5}{6}\right)$

8. $\frac{-35}{70}$

9. $(75) \div \left(-\frac{3}{5}\right)$

10. $(50) \div (-5)$

11. $\frac{18}{-54}$

12. $(-32) \div (-4)$

Simplify each expression.

13. $6x(-3y) + (-6a)(-2b)$

14. $\frac{42t - 14u}{7}$

15. $(-7)\left(-\frac{x}{-7}\right)$

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Multiplying and Dividing Real Numbers Assignment

Evaluate each expression.

16. $2y^3 - (-9y)$ when $y = 2$

17. $\frac{15x^2 + 12}{x}$ when $x = -3$

18. $(3)\left(-\frac{y}{15}\right)$

19. $\frac{x + 6}{5}$ when $x = 24$

20. How many $4\frac{1}{2}$ meters of ribbon are there in a 120 meter spool?

Multiplying and Dividing Real Numbers Assignment**ANSWER**

Find the product.

1. $(4)(-5) = -20$

2. $(-1)(-5)\left(\frac{6}{25}\right)$
 $= (-1)(-1)\left(\frac{6}{5}\right) = \frac{6}{5}$

3. $(13)(-2)\left(-\frac{6}{7}\right)(21)$
 $= (13)(-2)\left(-\frac{6}{1}\right)(3)$
 $= (-26)(-6)(3)$
 $= 156(3) = 468$

4. $(12)\left(\frac{8}{144}\right)(6)(2)$
 $= (1)\left(\frac{8}{12}\right)(6)(2)$
 $= \left(\frac{8}{12}\right)(12) = \left(\frac{8}{1}\right)(1)$
 $= 8$

5. $(-20)(-7) = 140$

6. $(-4)(-8)\left(\frac{3}{4}\right)$
 $= (-1)(-8)\left(\frac{3}{1}\right)$
 $= 8(3) = 24$

Find the quotient.

7. $(-90) \div \left(-\frac{5}{6}\right)$
 $= -90 \cdot \left(-\frac{6}{5}\right)$
 $= -18 \cdot (-6) = 108$

8. $\frac{-35}{70} = -\frac{1}{2}$

9. $(75) \div \left(-\frac{3}{5}\right)$
 $= 75 \cdot \left(-\frac{5}{3}\right) = 25(-5)$
 $= -125$

10. $(50) \div (-5)$
 $= \frac{50}{-5} = -10$

11. $\frac{18}{-54} = -\frac{1}{3}$

12. $(-32) \div (-4)$
 $= \frac{-32}{-4} = 8$

Simplify each expression.

13. $6x(-3y) + (-6a)(-2b)$
 $= -18xy + 12ab$

14. $\frac{42t - 14u}{7}$
 $= \frac{42t}{7} - \frac{14u}{7}$
 $= 6t - 2u$

15. $(-7)\left(-\frac{x}{7}\right) = -x$

Evaluate each expression.

16. $2y^3 - (-9y)$ when $y = 2$
 $= 2(2)^3 - (-9)(2) = 2(8) - (-18)$
 $= 16 + 18 = 34$

17. $\frac{15x^2 + 12}{x}$ when $x = -3$
 $= \frac{15(-3)^2 + 12}{-3} = \frac{15(9) + 12}{-3} = \frac{135 + 12}{-3}$
 $= \frac{147}{-3} = -49$

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18. $(3)\left(-\frac{y}{15}\right) = -\frac{y}{5}$

19. $\frac{x+6}{5}$ when $x = 24$
 $= \frac{24+6}{5} = \frac{30}{5} = 6$

20. How many $4\frac{1}{2}$ meters of ribbon are there in a 120 meter spool?

$$\frac{120 \text{ meters}}{4.5 \text{ meters/piece}} = 26.67 \text{ pieces}$$