

Multiplying and Dividing Sign Numbers

Signs are the Same - the answer is positive

Signs are Different - the answer is negative

Directions: Find each product or quotient.

1. $12 \cdot (-5) = \boxed{-60}$

2. $(-6) \times (-6) = \boxed{36}$

3. $(-15) \div 3 = \boxed{-5}$

4. $(-21) \div (-7) =$
 $-21 \div -7 = \boxed{3}$

5. $0 \cdot (-5) = \boxed{0}$

6. $\frac{-96}{12} = -96 \div 12 = \boxed{-8}$

7. $13(-4) = \boxed{-52}$

8. $-25 \cdot 6 = \boxed{-150}$

9. $15 \times (-4) \div 3 =$
 $-60 \div 3 = \boxed{-20}$

10. $\frac{(16)(-2)}{-8} = (16)(-2) \div (-8)$
 $-32 \div -8 = \boxed{4}$

11. $-1.2 \div (-6) = \boxed{.2}$

$$\begin{array}{r} .2 \\ 6 \overline{) 1.2} \\ \underline{12} \\ 0 \end{array}$$

12. $-(-8)(-7) = (-1) \cdot (-8) \cdot (-7)$
 $8 \cdot (-7) = \boxed{-56}$

$$13. -12(25)\left(\frac{1}{2}\right) =$$

$$(-12)\left(\frac{1}{2}\right) = -12 \div 2 = -6$$

$$(-6) \cdot (25) = \boxed{-150}$$

$$14. \frac{3}{8} \times \left(-\frac{4}{7}\right) \times \frac{2}{3} =$$

$$\frac{3}{8} \times \frac{-4}{7} = \frac{-3}{7} \times \frac{2}{3} = \boxed{\frac{-1}{7}}$$

$$15. \frac{2}{3} \div \left(-\frac{10}{21}\right) = \frac{2}{3} \times \frac{-21}{10} = \boxed{\frac{-7}{5}}$$

$$16. \frac{10}{7} \div \left(-\frac{7}{10}\right) = \frac{10}{7} \times \frac{-10}{7} = \boxed{\frac{-100}{49}}$$

$$49 \overline{) 100} \quad \boxed{-2 \frac{2}{49}}$$

$$\begin{array}{r} 100 \\ -98 \\ \hline 2 \end{array}$$

$$17. -\frac{2}{3} \div 96 = -\frac{2}{3} \times \frac{1}{96} = \boxed{\frac{-1}{144}}$$

$$18. -49 \div 2\frac{1}{2} =$$

$$-49 \div \frac{5}{2} = -49 \times \frac{2}{5} = \frac{-98}{5}$$

$$\frac{-98}{5} \cdot \frac{2}{3} = \boxed{\frac{-196}{15}}$$

$$15 \overline{) 196} \quad \boxed{-13 \frac{1}{15}}$$

$$\begin{array}{r} 196 \\ -15 \\ \hline 46 \\ -45 \\ \hline 1 \end{array}$$

$$19. (-2)(-13)\left(\frac{1}{8}\right) =$$

$$13 \cdot \frac{1}{8} = \frac{13}{8}$$

$$2 \cdot \frac{13}{8} = \frac{26}{8} = \frac{13}{4} = \boxed{\frac{13}{4}}$$

$$4 \overline{) 13} \quad \boxed{3 \frac{1}{4}}$$

$$\begin{array}{r} 13 \\ -12 \\ \hline 1 \end{array}$$

$$20. (-6)(-3) \div (-9) =$$

$$18 \div (-9) = \boxed{-2}$$