

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

**WS 1C.1 - Multiplying & Dividing Real Numbers**

#1-8, Simplify.

1.  $-5 \cdot 7$

$= \boxed{-35}$

2.  $5 \cdot (-7)$

$= \boxed{-35}$

3.  $5 \cdot 7$

$= \boxed{35}$

4.  $-5 \cdot (-7)$

$= \boxed{35}$

5.  $-3(4)$

$= \boxed{-12}$

6.  $(-3)(-4)$

$= \boxed{12}$

7.  $(-3)(-2)(6)(-4)$

$= \boxed{-144}$

8.  $(-3)(-2)(-6)(-4)$

$= \boxed{144}$

9. When multiplying positive and negative numbers, how can we tell whether our answer will be positive or negative?

Odd number of negatives multiplied/divided  $\rightarrow$  negative result  
 Even number of negatives multiplied/divided  $\rightarrow$  positive result

#10-17, Simplify.

10.  $-10 \div 5$

$= \boxed{-2}$

11.  $-10 \div (-5)$

$= \boxed{2}$

12.  $10 \div (-5)$

$= \boxed{-2}$

13.  $\frac{-24}{-8} = \boxed{3}$

14.  $\frac{24}{-8} = \boxed{-3}$

15.  $\frac{-24}{8} = \boxed{-3}$

16.  $\frac{8}{-24} = \boxed{-\frac{1}{3}}$

17.  $\frac{-30 \div 6}{-12 \div 6} = \boxed{\frac{5}{2}}$

#18-21, Simplify.

18.  $\frac{-5}{11} \cdot \frac{22}{15} = \boxed{-\frac{2}{3}}$

19.  $\frac{-3}{7} \cdot \frac{-24}{8} = \frac{9}{1} = \boxed{9}$

20.  $\frac{-3}{4} \div \frac{1}{4} = \frac{-3}{4} \cdot \frac{4}{1} = \frac{-12}{4} = \boxed{-3}$

21.  $\frac{-3}{4} \div \frac{1}{4} = \frac{-3}{4} \div \frac{1}{4}$   
Same as #20.  
 $= \boxed{-3}$

divide = multiply by reciprocal