

## MAT 0024 SECT. 1.7 MULTIPLICATION AND DIVISION OF SIGNED NUMBERS

When multiplying or dividing two numbers of:

(a) like signs, answer is \_\_\_\_\_.

(b) unlike signs, answer is \_\_\_\_\_.

Remember:  $\frac{0}{8} =$

$\frac{8}{0} =$

$-\frac{3}{4} = \frac{-3}{4} = \frac{3}{-4}$

$\frac{-3}{-4} = \frac{3}{4}$

Perform indicated operation:

1.  $-2(5)$

2.  $(-3)(-5)$

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

4.  $6(-2)$

5.  $(-32)(81)$

6.  $-21 \div 7$

7.  $\frac{-15}{-5}$

8.  $\frac{35}{-7}$

9.  $\frac{21}{0}$

10.  $\frac{-40}{-10}$

11.  $\frac{24}{-8}$

12.  $\frac{0}{3}$

13.  $\frac{-54}{9}$

14.  $\frac{7}{-2}$

15.  $(-2)(-1)(-3)$

16.  $5(-1)(2)(-3)$

The product of an even number of negatives is positive.

The product of an odd number of negatives is negative.

When a fraction contains a negative sign then  $-\frac{a}{b} = \frac{-a}{b} = \frac{a}{-b}$

You Try: Mixed Practice

17.  $8 + (-9)$

18.  $-5 - 7$

19.  $23(-54)$

20.  $-18 \div 6$

21.  $-5 - (-5)$

22.  $12 + (-5)$

23.  $-6(-9)$

24.  $-42 \div (-7)$