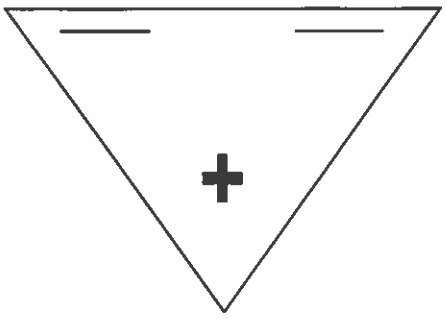
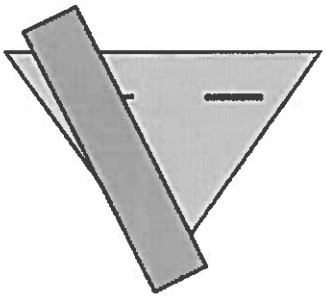
Pre- Chapter 7: Multiply and Divide Integers

To remember whether your answer will be **positive** or **negative** when MULTIPLYING or DIVIDING, we'll use: **FOX FACE**



- When multiplying or dividing integers, cover up the two signs you are using.
- Whatever sign is left, is the sign for the answer.

Examples: 2 (-5) = -10 -10 ÷ 2 = -5



Rules for products & quotients of two integers:

DIFFERENT signs is **NEGATIVE**.

3 x (-2) = -6 -3 x 2 = -6 12 ÷ -2 = -6

SAME signs is **POSITIVE**.

3 x 2 = 6 -3 x (-2) = 6 -12 ÷ -2 = 6

EXAMPLES:

3 (6-) =

-18

-9 (4)=

-36

2 (6) =

12

-7 (-5) =

35

-3 (-8) =

24

2 (2) =

4

-2 (6 + (-7)) =

-2(-1)

2

4 (-2 + 9)

4(7)

28

36 ÷ (-4)=

-9

-18 ÷ (-3) =

6

20 ÷ 5 =

4

-68 ÷ 8 =

-8.5

$\frac{(21 \div 3) \times 8}{-4}$

$\frac{7 \times 8}{-4}$

$\frac{56}{-4}$

-13.5

$\frac{-8 - 7}{-5}$

$\frac{-8+-7}{-5} = \frac{-15}{-5} = 3$