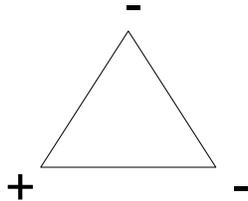


Chapter 2 sec 4
Multiplication, Division

Obtain the answer without the signs then decide on the signs, whether positive or negative.

Use the triangle to find the signs of the product, quotient.



Notice that one vertex is (+), while the other two vertices are (-).

Since the product of two positive numbers is always positive, this case is eliminated.

for the problem 3 (-4), we know the numerical answer is 12. To find the sign, look at the triangle and notice that a positive and negative is on the triangle, the sign that is missing is negative, so the sign of the answer is negative.

Similar, multiplying two negative values will get a positive answer.

To find the signs of division problems, the procedure is the same.

To summarize, to find the sign of the answer

If the two integers have the same signs, then the answer is positive.

If the two integers have unlike signs, then the answer is negative.

Division

There are three ways to see a division problem

a) $a \div b$

b) $\frac{a}{b}$

c) $b \overline{)a}$