Notes

Algebra Section 2.6

Pages 103-108

Goal: "You will divide real numbers"



Date:___



Division:

Think socks!



If your socks don't match, that's a negative! If your socks match, that's a positive!

Negative ÷ Negative=Positive





Negative ÷ Positive = Negative





Positive ÷ Negative=Negative





Ex:

Ex:
$$\frac{-8}{-2} =$$

Ex:
$$-20 \div (-5) =$$

Ex:
$$-\frac{3}{8} \div \frac{3}{10} =$$

Ex:
$$16 \div (-4) =$$
 Ex: $-3 \div -9 =$

Ex:
$$-3 \div -9 =$$

<u>Try These:</u> Use highlighters to make your socks.

$$-35 \div 7 =$$

$$12 \div (-3) =$$

$$-18 \div (-6) =$$

$$-21 \div (-7) =$$

$$18 \div (-3) =$$

$$24 \div (-4) =$$

$$7 \div (-2) =$$

$$-4 \div (-8) =$$

$$-\frac{3}{4} \div \left(-\frac{3}{8}\right) =$$

Finding the Mean:

Example: The table gives the daily minimum temperatures (in degrees Fahrenheit) in Barrow, Alaska, for the first 5 days of February 2004. Find the mean daily minimum temperature.

Day in February	1	2	3	4	5
Minimum Temperature (F°)	-21	-29	-39	-39	-22

Mean:
$$\frac{-21+(-29)+(-39)+(-39)+(-22)}{5} = \frac{-150}{5} = -30$$
°F

Try This:

Find the mean maximum temperature (in degrees Fahrenheit) in Barrow, Alaska, for the first 5 days of February 2004.

Day in February	1	2	3	4	5
Maximum Temperature (F°)	-3	-20	-21	-22	-18

Simplifying an Expression (Division):

Example:
$$\frac{36x-24}{6} = \frac{1}{6}(36x-24) = 6x-4$$

*Note: Each term in the numerator is divided by the denominator.



Try These:

$$\frac{20x+15}{5}$$

$$\frac{12x-8}{-4}$$

$$\frac{-6y+18}{3}$$

$$\frac{-10z-20}{-5}$$

$$\frac{33x+15}{3}$$

$$\frac{20x-8}{-4}$$

$$\frac{-27y+9}{3}$$

$$\frac{-18z+30}{-6}$$