

BE-1A WEDNESDAY 9-16-09

① $\frac{2}{3} \cdot \frac{9}{5}$

② $5 \cdot \frac{3}{8}$

③ $x=4 \quad y=\frac{1}{3}$ EVALUATE:

$y(4x+2)$

④ GRAPH:

X	-2	-1	0	1	2	3
Y	-5	-3	-1	1	3	5

• TAKE OUT homework $\Rightarrow$ Pg. 46-47 # 10-13
 $\Rightarrow$ Speed vs. Time GRAPH

Fraction Division:

$$\textcircled{\text{Ex}} \quad \frac{2}{3} \div \frac{1}{2} \Rightarrow \frac{\frac{2}{3}}{\frac{1}{2}}$$

$$\text{Since } \underbrace{\frac{1}{2} \cdot \frac{2}{1}} = 1 \quad \text{and} \quad \underbrace{\frac{\frac{1}{2}}{\frac{1}{2}}} = 1$$

Reciprocal Property
Any number times
its Reciprocal is 1

Any number divided
by itself is 1

$$\text{Then } \frac{\frac{2}{3}}{\frac{1}{2}} \cdot \frac{\overset{\text{top}}{2}}{\underset{\text{bottom}}{1}}} = \frac{\frac{2}{3} \cdot \frac{2}{1}}{1} = \frac{2}{3} \cdot \frac{2}{1} = \boxed{\frac{4}{3}}$$

Summary: fraction division rule
"Flip and multiply the bottom fraction"

$$\textcircled{\text{Ex}} \quad \frac{2}{3} \div \frac{1}{2}$$

$$\frac{2}{3} \cdot \frac{2}{1} = \frac{4}{3}$$

$$\textcircled{\text{EX}} \quad \frac{4}{5} \div \frac{3}{4}$$

$$\frac{4}{5} \cdot \frac{4}{3} = \boxed{\frac{16}{15}}$$

$$\textcircled{\text{EX}} \quad \frac{\frac{2}{7}}{6}$$

$$\frac{2}{7} \cdot \frac{1}{6} = \frac{2}{42} = \boxed{\frac{1}{21}}$$

$$\textcircled{\text{EX}} \quad \frac{\frac{4x}{5}}{2}$$

$$\frac{4x}{1} \cdot \frac{2}{5} = \boxed{\frac{8x}{5} \text{ or } \frac{8}{5}x}$$

$$\textcircled{\text{EX}} \quad \frac{\frac{9}{5}}{\frac{7}{6}}$$

$$\frac{9}{5} \cdot \frac{6}{7} = \boxed{\frac{54}{35}}$$

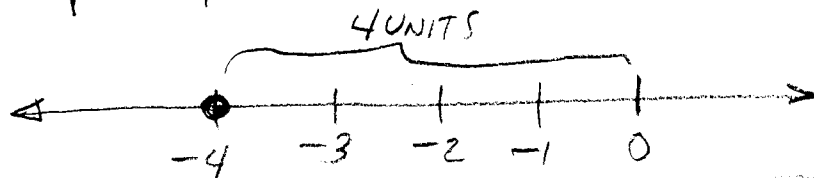
Distance from zero on a Number Line is called the Absolute Value.

Symbol, 2 vertical lines. $\textcircled{\text{EX}}$ $|-4|$

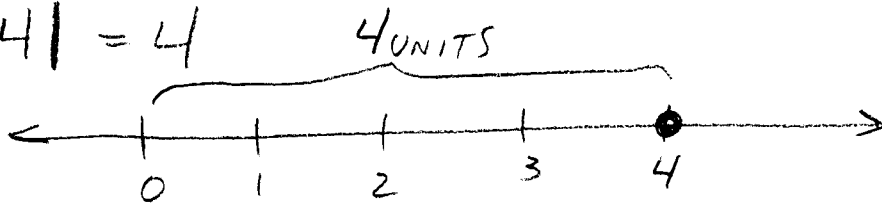
Read, the absolute value of negative 4.

Absolute Value is A Grouping Symbol.
(our 4th one) $\Rightarrow (), [], \{ \}, \text{---}, ||$

$|-4| = 4$ Distance is Always positive



$|4| = 4$



$$|6| = ?$$

$$|-\frac{1}{2}| = ?$$

$$|0.5| = ?$$

$$|-0.\bar{3}| = ?$$

Expressions with Absolute Value:

Ⓔ $x = 8$

$$15 - |x + 4|$$

$$15 - |(8) + 4|$$

$$15 - |12|$$

$$15 - 12 = \boxed{3}$$

Homework: Pg 63 # 6, 7, 16, 17, 18, 21

Pg 71 # 34, 35, 45, 48