

BE-1A | MONDAY 9-27-10

COPY THESE SIGN AND FRACTION RULES TO A NEW PAGE IN YOUR NOTES:

Summary of Sign and Fraction Rules

Signs:	$+, -$	SSA, KSS DSS, BOW $\begin{pmatrix} + \\ - \end{pmatrix}$
	$\cdot, \div$	SPDN
Fractions:	$+, -$	Common Denominator
	$\cdot$	$\frac{\text{Top times top}}{\text{bottom times bottom}}$
	$\div$	Flip and multiply

- Keep returned HW 6 out.
- Look at returned Quiz 5

1.
Add/Subtract with decimals
⇒ line up decimal points! Keep columns straight!

EX $25.624 + 138.02$

$$\begin{array}{r} 25.624 \\ + 138.02 \\ \hline 163.644 \end{array}$$

EX $1.0005 - 24.3$

- More negatives, so answer is ~~—~~
- Ignore signs, find difference

$$\begin{array}{r} 24.\overset{2}{\cancel{3}}\overset{9}{\cancel{0}}\overset{9}{\cancel{0}}\overset{1}{\cancel{0}} \\ - 1.0005 \\ \hline \text{—} 23.2995 \end{array} \quad \leftarrow \text{ADD ZEROS}$$

Multiply with Decimals

⇒ ignore decimals to end, count places
to right, move answer decimal to left

ⓧ (4.26)(15.035)

$$\begin{array}{r}
 15.035 \\
 \times 4.26 \\
 \hline
 90210 \\
 30070 \\
 60140 \\
 \hline
 64.04910
 \end{array}$$

To Right
 .035 is 3 places
 .26 is 2 places

5
 move 5 places to left

64.0491

Is answer Reasonable?

4.15 = 60. so 64 is Reasonable

Division with decimals:

"Move the Fraction" or change to fractions
 $\Rightarrow$ long division

Ex $36.08 \div 8$

$$\begin{array}{r} \boxed{4.51} \\ 8 \overline{) 36.08} \\ \underline{32} \\ 40 \\ \underline{40} \\ 08 \end{array}$$

$$\text{or } \frac{36 \frac{8}{100}}{8} = \frac{\overset{451}{3608}}{100} \cdot \frac{1}{\cancel{8}_1} = \boxed{\frac{451}{100} = 4.51}$$

Ex $40.05 \div 2.5$

$$\frac{40.05}{2.5} = \frac{8.01}{.5}$$

$$\begin{array}{r} \boxed{16.02} \\ .5 \overline{) 8.010} \\ \underline{5} \\ 30 \\ \underline{30} \\ 01 \\ \underline{0} \\ 10 \end{array}$$

$$\frac{40 \frac{5}{100}}{2 \frac{5}{10}} = \frac{\frac{4005}{100}}{\frac{25}{10}}$$

$$\frac{\overset{801}{4005}}{100} \cdot \frac{10}{\cancel{25}_5}$$

$$= \boxed{\frac{801}{50}}$$

NAME: _____ DATE: _____ Period: _____

*** ALL WORK ON LOOSELEAF ***

1. $42(7)$

2. $-28(-17)$

3. $15(-34)$

4. $\left(-\frac{3}{4}\right)\left(\frac{7}{8}\right)$

5. $\left(-\frac{4}{5}\right)\left(-\frac{5}{6}\right)$

6. $\left(\frac{9}{10}\right)\left(\frac{5}{7}\right)$ (A) Multiply

7. $\left(-3\frac{1}{4}\right)\left(2\frac{1}{2}\right)$

8. $\left(-2\frac{2}{3}\right)\left(-1\frac{1}{6}\right)$

9. $\left(1\frac{1}{4}\right)\left(-1\frac{1}{5}\right)$

1. $-82 + 14$

2. $-33 + 47$

3. $-17 + (-39)$

4. $8 + (-11)$

5. $-1.7 + 3.2$

6. $-13.3 + (-0.9)$

7. $-51.8 + 29.7$

8. $7.34 + (-9.06)$

9. $\frac{5}{9} + \frac{5}{6}$ (B) Add/Subtract

10. $-\frac{3}{5} + \frac{2}{3}$

11. $-\frac{3}{4} + \left(-\frac{3}{5}\right)$

12. $\frac{3}{8} + \left(-\frac{2}{3}\right)$

13. $65 - 93$

14. $-42 - (-17)$

15. $13 - (-19)$

16. $-8 - 43$

17. $82.8 - (-12.4)$

18. $1.27 - 2.34$

19. $-9.26 - 12.05$

20. $-18.1 - (-4.7)$

21. $-\frac{1}{5} - \frac{2}{3}$

1. $75 \div (-15)$

2. $-323 \div (-17)$

3. $-88 \div 16$

4. $65.7 \div (-9)$

5. $-36.08 \div 8$

6. $-40.05 \div (-2.5)$ (C) Divide

7. $-9 \div \frac{3}{5}$

8. $-\frac{5}{6} \div \left(-\frac{3}{8}\right)$

9. $\frac{14}{63} \div \left(-\frac{49}{54}\right)$

Label each section (A) (B), (C) on looseleaf
so the problems do not get mixed up!

*** ALL WORK ON looseleaf ***

Homework: Pg 115 # 7 to 18