Name _____ Period_____ Date_____

Dividing Rational Numbers

Rule 5: **When multiplying or dividing numbers with same signs, the answer is positive.**

Rule 6: **When multiplying or dividing numbers with different signs, the answer is negative.**

Examples:

Simplify $\frac{-20}{4} = -5$

Simplify $\frac{-1}{2} \div \frac{-2}{3} =$

$\frac{-1}{2} \bullet \frac{-3}{2} = \frac{3}{4}$

Simplify $3.5 \div (-0.5) = -7$

Simplify the following.

1. (+9) / (-3)

2. (-44) / (+11)

3. -30 ÷ (-3)

4. $70 \div (-10)$

5. $(-15) \div (-3)$

6. (24)/ (-8)

7. $\frac{2}{3} \div \left(\frac{5}{6}\right)$

8. $\frac{-4}{11} \div \left(\frac{4}{5}\right)$

9. $\frac{-\frac{3}{8}}{-\frac{3}{4}}$

10. $\frac{-1.2}{-0.6}$

11. $1.25 \div (-2.5)$

12. $0.54 \div 0.9$

13. $\left(-3\frac{1}{3}\right) \div \left(-2\frac{1}{2}\right)$

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

15. $\left(3\frac{3}{5}\right) \div \left(4\frac{1}{2}\right)$