

DIVISION OF RATIONAL NUMBERS SEPT 24/07

$$10 \div 2 = +5$$

$$-10 \div -2 = 5$$

$$-10 \div 2 = -5$$

$$10 \div -2 = -5$$

IF THE SIGNS
ARE THE SAME
THE ANSWER
IS POSITIVE

IF THE SIGNS
ARE DIFFERENT
THE ANSWER IS
NEGATIVE

$$\frac{1}{2} \times \frac{3}{4} = \frac{1 \times 3}{2 \times 4} = \frac{3}{8}$$

$$\frac{3}{4} \div \frac{1}{8} = \frac{3}{4} \times \frac{8}{1} = \frac{24}{4} = 6$$

WHEN YOU DIVIDE BY A FRACTION,
IT IS THE SAME AS MULTIPLYING
BY THE RECIPROCAL (FLIP THE FRACTION)

$$-\frac{5}{8} \div \frac{3}{4} = -\frac{5}{8} \times \frac{4}{3} = -\frac{20}{24} = -\frac{5}{6}$$

$$\left(-4\frac{1}{5}\right) \div \left(-3\frac{1}{3}\right)$$

$$-\frac{21}{5} \div -\frac{10}{3} = -\frac{21}{5} \times -\frac{3}{10}$$

$$= \frac{63}{50}$$

IMPROPER

$$63 \text{ A/K } 50 =$$

$$1\frac{13}{50} \leftarrow \text{MIXED}$$

$$1 \text{ L } 13 \text{ L } 50$$

P 6134 - 135

Q# 3 - 9, 12, 17