

## STUDY GUIDE for Let's Be Rational Post-Test

6. Find the value of  $N$  that makes each number sentence true.

a.  $N \times \frac{5}{6} = \frac{10}{3}$

$$N = \frac{10}{3} \div \frac{5}{6}$$

$$N = \frac{10^2}{3} \times \frac{6^2}{5}$$

$$N = 4$$

b.  $N \div \frac{2}{7} = \frac{3}{2}$

$$N = \frac{3}{2} \times \frac{2}{7}$$

$$N = \frac{3}{7}$$

c.  $\frac{5}{8} \times N = \frac{5}{4}$

$$N = \frac{5}{4} \div \frac{5}{8}$$

$$N = \frac{5}{4} \times \frac{8}{5}$$

$$N = 2$$

d.  $\frac{35}{12} \div N = \frac{5}{3}$

$$\frac{35}{12} \div \frac{5}{3} = N$$

$$\frac{35}{12} \times \frac{3}{5} = \frac{7}{4}$$

For each number sentence, write a complete fact family.

7. a.  $\frac{3}{7} + \frac{1}{3} = \frac{16}{21}$

$$\frac{1}{3} + \frac{3}{7} = \frac{16}{21}$$

$$\frac{16}{21} - \frac{1}{3} = \frac{3}{7}$$

$$\frac{16}{21} - \frac{3}{7} = \frac{1}{3}$$

b.  $\frac{11}{12} - \frac{3}{8} = \frac{13}{24}$

$$\frac{11}{12} - \frac{13}{24} = \frac{3}{8}$$

$$\frac{3}{8} + \frac{13}{24} = \frac{11}{12}$$

$$\frac{13}{24} + \frac{3}{8} = \frac{11}{12}$$

c.  $\frac{1}{6} + N = \frac{11}{12}$

$$N + \frac{1}{6} = \frac{11}{12}$$

$$\frac{11}{12} - N = \frac{1}{6}$$

$$\frac{11}{12} - \frac{1}{6} = N$$

d.  $\frac{13}{15} - N = \frac{1}{6}$

$$\frac{13}{15} - \frac{1}{6} = N$$

$$\frac{1}{6} + N = \frac{13}{15}$$

$$N + \frac{1}{6} = \frac{13}{15}$$