

1. Fill in the blanks in the following table. (Yes/No)

Numbers	Closed under			
	Addition	Subtraction	Multiplication	Division
Rational numbers				
Integers				
Whole numbers				
Natural numbers				

2. Fill in the blanks in the following table. (Yes/No)

Numbers	Commutative for			
	Addition	Subtraction	Multiplication	Division
Rational numbers				
Integers				
Whole numbers				
Natural numbers				

3. Fill in the blanks in the following table. (Yes/No)

Numbers	Associative for			
	Addition	Subtraction	Multiplication	Division
Rational numbers				
Integers				
Whole numbers				
Natural numbers				

Solve:

1. $\frac{3}{7} + \left(\frac{-6}{11}\right) + \left(\frac{-8}{21}\right) + \left(\frac{5}{22}\right)$

2. $\frac{-4}{5} \times \frac{3}{7} \times \frac{15}{16} \times \left(\frac{-14}{9}\right)$

3. $\frac{-2}{3} \times \frac{3}{5} + \frac{5}{2} - \frac{3}{5} \times \frac{1}{6}$

4. $\frac{2}{7} + \frac{3}{14} - \frac{5}{2} + \frac{1}{7}$

5. $\frac{7}{8} \times \left(\frac{-4}{21}\right) \div \left(\frac{-4}{9}\right) \times \left(\frac{2}{5}\right)$

6. $\frac{2}{9} \times \left(\frac{3}{8} + \frac{5}{4}\right)$