

Note: Try to simplify the problem before starting your calculation. This will reduce the amount of work you have to do. (therefore less likely to make a mistake. :))

Math 6
Spring Break Problem Set Day 3
March 16, 2017

Name and section: Key

1. Calculation. Make sure to simplify your final answers.

$$(a) \frac{10}{21} + \frac{3}{12} = \frac{10+3}{2} = \frac{13}{2}$$

$$(b) \frac{7}{1} + \frac{2}{7} = \frac{49+2}{7} = \frac{51}{7}$$

$$(c) \frac{1}{1} + \frac{1}{12} = \frac{2+1}{2} = \frac{3}{2}$$

$$(d) \frac{4}{4} + \frac{21}{105} = \frac{5+1}{5} = \frac{6}{5}$$

$$(e) \frac{1}{4} + \frac{6}{2} = \frac{1+12}{4} = \frac{13}{4}$$

$$(f) \frac{7}{2} + \frac{3}{10} = \frac{35+3}{10} = \frac{38}{10} = \frac{19}{5}$$

$$(g) \frac{8}{9} + \frac{10}{2} = \frac{8+45}{9} = \frac{53}{9}$$

$$(h) \frac{1}{1} - \frac{5}{9} = \frac{9-5}{9} = \frac{4}{9}$$

$$(i) \frac{1}{4} - \frac{10}{5} = \frac{1-8}{4} = -\frac{7}{4}$$

$$(j) \frac{3}{1} - \frac{9}{10} = \frac{30-9}{10} = \frac{21}{10}$$

$$(k) \frac{3}{4} - \frac{2}{5} = \frac{15-8}{20} = \frac{7}{20}$$

$$(l) \frac{8}{8} - \frac{1}{1} = 0$$

$$(m) \frac{21}{10} - \frac{10}{2} = \frac{1-10}{2} = -\frac{9}{2}$$

$$(n) \frac{0}{8} - \frac{7}{2} = -\frac{7}{2}$$

2. Calculation. Make sure to simplify your final answer.

$$(a) \frac{9}{3} \times \frac{10}{2} = \frac{45}{3} = 15$$

$$(b) \frac{8}{8} \times \frac{2}{3} = \frac{2}{3}$$

$$(c) \frac{3}{24} \times \frac{63}{21} = \frac{9}{2}$$

$$(d) \frac{0}{8} \times \frac{5}{1} = 0$$

$$(e) \frac{2}{4} \times \frac{3}{7} = \frac{6}{28} = \frac{3}{14}$$

$$(f) \frac{7}{2} \times \frac{6}{6} = \frac{7}{2}$$

$$(g) \frac{0}{9} \times \frac{5}{10} = 0$$

$$(h) \frac{4}{2} \div \frac{4}{10} = 2 \times \frac{5}{2} = 5$$

$$(i) \frac{6}{6} \div \frac{2}{3} = 1 \times \frac{3}{3} = \frac{1}{3}$$

$$(j) \frac{8}{1} \div \frac{7}{2} = 8 \times \frac{2}{7} = \frac{16}{7}$$

$$(k) \frac{1}{1} \div \frac{21}{24} = 1 \times \frac{4}{1} = 4$$

$$(l) \frac{3}{5} \div \frac{6}{10} = \frac{3}{5} \times \frac{5}{3} = 1$$

$$(m) \frac{1}{3} \div \frac{3}{3} = \frac{1}{3}$$

$$(n) \frac{4}{21} \div \frac{1}{8} = 4 \times \frac{2}{1} = 8$$