

Note: Same as yesterday's.

Also, double-check your answers before looking at this answer key!

Math 6
Spring Break Problem Set Day 2
March 15, 2017

Name and section: Key

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

(a) $\frac{8}{6} + \frac{5}{6} = \frac{13}{6}$

(b) $\frac{2}{9} + \frac{7}{4} = \frac{8+63}{36} = \frac{71}{36}$

(c) $\frac{10}{10} + \frac{2}{3} = \frac{3+2}{3} = \frac{5}{3}$

(d) $\frac{10}{6} + \frac{7}{5} = \frac{50+42}{30} = \frac{92}{30} = \frac{46}{15}$

(e) $\frac{0}{8} + \frac{0}{5} = 0$

(f) $\frac{9}{1} + \frac{5}{2} = \frac{18+5}{2} = \frac{23}{2}$

(g) $\frac{0}{3} + \frac{3}{9} = \frac{3}{9} = \frac{1}{3}$

(h) $\frac{6}{6} - \frac{2}{9} = \frac{9-2}{9} = \frac{7}{9}$

(i) $\frac{3}{8} - \frac{2}{9} = \frac{27-16}{72} = \frac{11}{72}$

(j) $\frac{7}{1} - \frac{6}{2} = \frac{14-6}{2} = \frac{8}{2} = 4$

(k) $\frac{2}{3} - \frac{6}{3} = -\frac{4}{3}$

(l) $\frac{4}{2} - \frac{10}{3} = \frac{12-10}{3} = \frac{2}{3}$

(m) $\frac{4}{3} - \frac{1}{10} = \frac{20-3}{15} = \frac{17}{15}$

(n) $\frac{7}{9} - \frac{5}{4} = \frac{28-45}{36} = -\frac{17}{36}$

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

(a) $\frac{8}{2} \times \frac{10}{10} = \frac{8}{2} \times 1 = 4$

(b) $\frac{8}{5} \times \frac{10}{4} = \frac{8 \times 2}{1} = 16$

(c) $\frac{3}{7} \times \frac{8}{5} = \frac{24}{35}$

(d) $\frac{2}{1} \times \frac{7}{10} = \frac{14}{10} = \frac{7}{5}$

(e) $\frac{2}{2} \times \frac{3}{2} = \frac{3}{2}$

(f) $\frac{9}{10} \times \frac{3}{3} = \frac{9}{10}$

(g) $\frac{0}{10} \times \frac{6}{7} = 0$

(h) $\frac{0}{3} \div \frac{1}{1} = 0$

(i) $\frac{5}{2} \div \frac{4}{5} = \frac{5}{2} \times \frac{5}{4} = \frac{25}{8}$

(j) $\frac{9}{2} \div \frac{8}{3} = \frac{9}{2} \times \frac{3}{8} = \frac{27}{16}$

(k) $\frac{1}{2} \div \frac{2}{3} = \frac{1}{2} \times \frac{3}{2} = \frac{3}{4}$

(l) $\frac{9}{7} \div \frac{4}{1} = \frac{9}{7} \times \frac{1}{4} = \frac{9}{28}$

(m) $\frac{5}{3} \div \frac{2}{5} = \frac{5}{3} \times \frac{5}{2} = \frac{25}{6}$

(n) $\frac{9}{7} \div \frac{5}{1} = \frac{9}{7} \times \frac{1}{5} = \frac{9}{35}$