Q1.

$$= \frac{4}{20} + \frac{5}{3}$$

$$= \frac{1}{5} + \frac{5}{3}$$

$$= \frac{28}{15}$$

Q2.

(a)

$$= \frac{5}{3} - \frac{2}{4}$$

$$= \frac{20-6}{12}$$

$$= \frac{14}{12}$$

$$= \frac{7}{6}$$

(b)

$$= \frac{16}{5} \times \frac{5}{2}$$

$$= \frac{16 \times 5}{5 \times 2}$$

$$= \frac{80}{10}$$

$$= 8$$

Q3.

$$= \frac{16 \times 6}{5 \times 3}$$

$$= \frac{48}{5}$$

Q4.

(a)

$$= \frac{5}{8} + \frac{1}{2}$$

$$= \frac{5+4}{8}$$

$$= \frac{9}{8}$$

(b)

$$= \frac{10}{9} - \frac{4}{9}$$

$$= \frac{6}{9}$$

$$= \frac{2}{3}$$

Q5.

$$= \frac{10}{5} \times \frac{5}{4}$$

$$= \frac{50}{20}$$

$$= \frac{5}{2}$$

Q6.

(a)

$$= \frac{1}{8} + \frac{2}{8}$$

$$= \frac{3}{8}$$

(b)

$$= \frac{10}{9} \div \frac{4}{3}$$

$$= \frac{10}{9} \times \frac{3}{4}$$

$$= \frac{10 \times 3}{9 \times 4}$$

$$= \frac{30}{36}$$

$$= \frac{5}{6}$$

Q7.

$$= \frac{1}{9} \div \frac{18}{2}$$

$$= \frac{1}{9} \times \frac{2}{18}$$

$$= \frac{2}{162}$$

$$= \frac{1}{81}$$

Q8.

(a)

$$= \frac{7}{4} - \frac{3}{2}$$

$$= \frac{7-6}{4}$$

$$= \frac{1}{4}$$

(b)

$$= \frac{19}{9} \div \frac{16}{3}$$

$$= \frac{19}{9} \times \frac{3}{16}$$

$$= \frac{57}{144}$$

$$= \frac{19}{48}$$

Q9.

$$= \frac{1}{9} + \frac{18}{2}$$

$$= \frac{1}{9} + \frac{18}{2}$$

$$= \frac{1+81}{9}$$

$$= \frac{82}{9}$$

Q10.

(a)

$$= \frac{8}{5} - \frac{3}{4}$$

$$= \frac{32-15}{20}$$

$$= \frac{17}{20}$$

(b)

$$= \frac{7}{2} \times \frac{4}{3}$$

$$= \frac{28}{6}$$

$$= \frac{14}{3}$$

$$= 4\frac{2}{3}$$

Q11.

$$= \frac{18}{3} - \frac{9}{2}$$

$$= \frac{36-27}{6}$$

$$= \frac{9}{6}$$

$$= \frac{3}{2}$$

Q12.

(a)

$$= \frac{14}{3} \div \frac{8}{2}$$

$$= \frac{14}{3} \times \frac{2}{8}$$

$$= \frac{28}{24}$$

$$= \frac{7}{6}$$

$$= 1\frac{1}{6}$$

(b)

$$\frac{17}{2} \times \frac{4}{3} = \frac{34}{3}$$

Q13.

$$= \frac{17}{2} \div \frac{4}{3}$$

$$= \frac{17}{2} \times \frac{3}{4}$$

$$= \frac{51}{8}$$

Q14.

(a)

$$= \frac{17}{2} + \frac{10}{3}$$

$$= \frac{71}{6}$$

(b)

$$= \frac{7}{3} \div \frac{5}{2}$$

$$= \frac{7}{3} \times \frac{2}{5}$$

$$= \frac{14}{15}$$
