Answer key

The method: All four operations

Check the sign. Adding and subtracting need a common denominator. Multiplying and dividing do not.

$$\frac{1}{3} \div \frac{2}{3} = \frac{1}{3} \times \frac{3}{2} = \frac{3}{6}$$ keep, change, flip

$$\frac{3}{6} = \frac{1}{2}$$ simplify (÷ 3)

$$\frac{3}{5} + \frac{3}{4} = \frac{12}{20} + \frac{15}{20} = \frac{27}{20}$$ rewrite with denominator 20

$$\frac{27}{20} = 1\frac{7}{20}$$ write as a mixed number

$$\frac{1}{2} \times \frac{1}{6} = \frac{1 \times 1}{2 \times 6} = \frac{1}{12}$$ numerator × numerator, denominator × denominator

Problems 6 and 9 worked out · Version 0A

$$\frac{3}{4} \div \frac{2}{3} = \frac{3}{4} \times \frac{3}{2} = \frac{9}{8}$$ keep, change, flip

$$\frac{9}{8} = 1\frac{1}{8}$$ write as a mixed number

$$\frac{5}{7} \div \frac{1}{5} = \frac{5}{7} \times \frac{5}{1} = \frac{25}{7}$$ keep, change, flip

$$\frac{25}{7} = 3\frac{4}{7}$$ write as a mixed number

All four operations · Version 0A

1) $\frac{3}{10}$ 2) $\frac{4}{5}$ 3) $\frac{9}{35}$ 4) $\frac{4}{15}$ 5) $\frac{1}{56}$ 6) $1\frac{1}{8}$ 7) $\frac{1}{4}$
8) $\frac{1}{12}$ 9) $3\frac{4}{7}$ 10) $\frac{11}{28}$ 11) $\frac{1}{9}$ 12) $\frac{1}{14}$ 13) $1\frac{2}{3}$
14) $\frac{3}{20}$ 15) $1\frac{3}{4}$ 16) 1 17) $\frac{4}{21}$ 18) $\frac{1}{6}$ 19) $\frac{1}{5}$
20) $\frac{3}{10}$ 21) $\frac{9}{10}$ 22) $\frac{1}{8}$ 23) $\frac{1}{4}$ 24) 1 25) $\frac{5}{16}$
26) $\frac{3}{4}$ 27) $\frac{1}{4}$ 28) $1\frac{1}{35}$ 29) $\frac{4}{7}$ 30) $\frac{1}{3}$ 31) $\frac{20}{21}$
32) $1\frac{1}{3}$ 33) $\frac{14}{15}$ 34) $\frac{3}{5}$ 35) $\frac{1}{12}$ 36) $\frac{1}{8}$ 37) $\frac{17}{42}$
38) $\frac{1}{6}$ 39) $\frac{27}{40}$ 40) $\frac{11}{12}$ 41) $1\frac{7}{40}$ 42) $6\frac{6}{7}$ 43) $1\frac{1}{14}$
44) $\frac{1}{6}$ 45) $\frac{2}{35}$ 46) $\frac{1}{3}$ 47) $\frac{8}{21}$ 48) $\frac{7}{10}$ 49) $\frac{5}{24}$
50) $\frac{1}{12}$