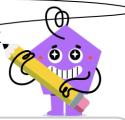# Factoring - Simplifying Fraction Division with Factors - Factored to Simplified

1 Use factorization to simplify

$$\frac{2 \times 2 \times 2 \times 5}{2 \times 2 \times 7} \div \frac{2}{1}$$

A $\frac{5}{7}$ B $\frac{5}{2}$ C $\frac{2}{5}$ D $\frac{2}{3}$ E $\frac{3}{4}$ F $\frac{7}{5}$

2 Use factorization to simplify

$$\frac{7 \times 7}{5} \div \frac{3 \times 3 \times 7}{3 \times 3}$$

A $\frac{5}{2}$ B $\frac{7}{8}$ C $\frac{7}{3}$ D $\frac{2}{3}$ E $\frac{7}{5}$ F $\frac{7}{2}$

3 Use factorization to simplify

$$\frac{3 \times 5}{2} \div \frac{3 \times 3 \times 5}{3 \times 3}$$

A $\frac{5}{7}$ B $\frac{3}{2}$ C $\frac{5}{6}$ D $\frac{3}{4}$ E $\frac{2}{5}$ F $\frac{7}{3}$

4 Use factorization to simplify

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

A $\frac{2}{7}$ B $\frac{5}{6}$ C $\frac{3}{4}$ D $\frac{7}{5}$ E $\frac{7}{3}$ F $\frac{3}{5}$

5 Use factorization to simplify

$$\frac{7}{5 \times 7} \div \frac{5 \times 5}{2 \times 5 \times 5}$$

A $\frac{2}{3}$ B $\frac{7}{3}$ C $\frac{5}{3}$ D $\frac{2}{7}$ E $\frac{2}{5}$ F $\frac{5}{2}$

6 Use factorization to simplify

$$\frac{2 \times 3 \times 3}{2 \times 3} \div \frac{3 \times 7}{3}$$

A $\frac{3}{5}$ B $\frac{3}{7}$ C $\frac{5}{6}$ D $\frac{7}{5}$ E $\frac{2}{3}$ F $\frac{5}{2}$

7 Use factorization to simplify

$$\frac{3 \times 3}{3 \times 3 \times 5} \div \frac{2}{3 \times 5}$$

A $\frac{3}{4}$ B $\frac{3}{2}$ C $\frac{2}{3}$ D $\frac{5}{6}$ E $\frac{7}{3}$ F $\frac{2}{7}$

8 Use factorization to simplify

$$\frac{2 \times 5 \times 5}{3 \times 5} \div \frac{2 \times 5}{5}$$

A $\frac{2}{3}$ B $\frac{2}{5}$ C $\frac{7}{8}$ D $\frac{3}{2}$ E $\frac{5}{3}$ F $\frac{7}{2}$