

Multiplying and Dividing Fractions Homework

Work out the answer to each question, showing all your working. Remember to simplify your answers.

1.

a. $\frac{1}{3} \times \frac{2}{5}$

b. $\frac{3}{8} \times \frac{1}{2}$

c. $\frac{1}{6} \times \frac{3}{10}$

d. $\frac{3}{8} \times \frac{2}{7}$

e. $\frac{6}{7} \times \frac{2}{9}$

2.

a. $\frac{1}{3} \div \frac{4}{7}$

b. $\frac{3}{5} \div \frac{2}{3}$

c. $\frac{2}{9} \div \frac{3}{4}$

d. $\frac{5}{7} \div \frac{1}{6}$

e. $\frac{3}{4} \div \frac{9}{10}$

3.

a. $4\frac{2}{3} \times \frac{1}{4}$

b. $7 \times \frac{3}{5}$

c. $1\frac{4}{7} \times \frac{2}{3}$

d. $3\frac{1}{3} \times 2\frac{3}{4}$

e. $1\frac{2}{3} \times 2\frac{1}{5}$

4.

a. $\frac{1}{7} \div 2$

b. $3 \div \frac{2}{7}$




c. $2\frac{1}{5} \div \frac{2}{3}$

d. $4\frac{5}{8} \div 1\frac{1}{5}$

e. $5\frac{6}{7} \div 2\frac{3}{5}$

Challenge

Work out $\frac{2x}{7} \times \frac{5}{4x}$

WWW	Multiplying and Dividing Fractions			
1	Multiplying fractions.			
2	Dividing fractions.			
3	Multiplying mixed numbers.			
4	Dividing mixed numbers.			
Challenge	Multiplying algebraic fractions.			
EBI				

Answers

1.

a. $\frac{2}{15}$

b. $\frac{3}{16}$

c. $\frac{1}{20}$

d. $\frac{3}{28}$

e. $\frac{4}{21}$

2.

a. $\frac{7}{12}$

b. $\frac{9}{10}$

c. $\frac{8}{27}$

d. $\frac{30}{7} = 4\frac{2}{7}$

e. $\frac{5}{6}$

3.

a. $1\frac{1}{6}$

b. $4\frac{1}{5}$

c. $1\frac{1}{21}$

d. $9\frac{1}{6}$

e. $3\frac{2}{3}$

4.

a. $\frac{1}{14}$

b. $10\frac{1}{2}$

c. $3\frac{3}{10}$

d. $3\frac{41}{48}$

e. $2\frac{23}{91}$

Challenge

$$\frac{5}{14}$$