YEAR 8 · NUMBER

Multiplying and Dividing Fractions

Practise multiplying fractions and dividing by using inverse multiplication.

Name: _____ Date: _____

Your task Show your working in the spaces provided. Simplify each answer fully. When dividing, multiply by the reciprocal of the second fraction.

1. Multiply

Multiply the numerators and denominators.

1 $\frac{2}{3} \times \frac{3}{5}$ = _____

2 $\frac{4}{7} \times \frac{3}{8}$ = _____

3 $\frac{5}{6} \times \frac{9}{10}$ = _____

4 $\frac{7}{12} \times \frac{6}{7}$ = _____

5 $1\frac{1}{4} \times \frac{2}{3}$ = _____

6 $2\frac{2}{5} \times 1\frac{3}{4}$ = _____

2. Divide using the inverse

Show the reciprocal step and simplify.

Remember: **Keep** › **Change** › **Flip** Keep the first fraction, change ÷ to ×, and flip the second fraction.

7 $\frac{3}{4} \div \frac{2}{5}$ = _____

8 $\frac{5}{6} \div \frac{1}{3}$ = _____

9 $\frac{7}{9} \div \frac{14}{15}$ = _____

10 $\frac{2}{3} \div \frac{4}{9}$ = _____

11 $1\frac{1}{2} \div \frac{3}{4}$ = _____

12 $2\frac{1}{4} \div 1\frac{1}{2}$ = _____

3. Apply your skills

Write your answer with the correct units.

13 A recipe for one batch uses $\frac{3}{4}$ kg of flour. How much flour is needed for $2\frac{2}{3}$ batches?

14 A length of ribbon is $5\frac{1}{4}$ m long. It is cut into pieces that are each $\frac{3}{4}$ m long. How many pieces can be cut?

☐ Before you finish: have you simplified each answer and used the reciprocal when dividing?