

Problem Solving with Fractions

1. Solve the problem.

Tom cycles $\frac{1}{6}$ of a mile to school five times a week.

Jasmine cycles $\frac{1}{12}$ of a mile to school four times a week.

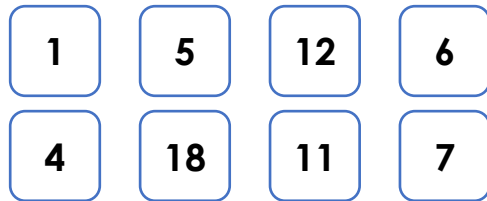
Jasmine thinks that she cycles further to school than Tom. Is she correct? Prove it.



2. Use the digit cards to solve the calculation in two different ways.

$$\frac{3}{11} \times \square = \square \frac{\square}{\square}$$

$$\frac{3}{11} \times \square = \square \frac{\square}{\square}$$



Each digit card can only be used once in a calculation.

3. The mixed numbers below have been multiplied by the same integer.

$$2 \frac{3}{5} \times \square = 7 \frac{4}{5}$$

$$3 \frac{4}{7} \times \square = 10 \frac{5}{7}$$

What is the missing integer? Show any working out.