

# Fraction Strategies: Feeding Pets

We are learning how to find fractions between two other fractions.

AC

Equipment: A set of fraction strips, calculators.

EA

**Problem:** Two-thirds of a strip of dog jerky strip (dried meat) still leaves Woof, the dog, hungry but three-quarters is too much. Find a fraction between  $\frac{2}{3}$  and  $\frac{3}{4}$  that could tell you how much of a strip to feed Woof today.

AA

AM

AP

**Strategies:** 1) Change both fractions to decimals,  $\frac{2}{3} = 0.666\dots$  and  $\frac{3}{4} = 0.75$ , and find a decimal between these.

2) Change both fractions to equivalent fractions with a common denominator, in this case 12 or even 24.

$\frac{2}{3} = \frac{8}{12} = \frac{16}{24}$  and  $\frac{3}{4} = \frac{9}{12} = \frac{18}{24}$ . This means that our required fraction is

between  $\frac{8}{12}$  and  $\frac{9}{12}$  or better still between  $\frac{16}{24}$  and  $\frac{18}{24}$ . We can choose

the fraction  $\frac{17}{24}$  as our answer.

## Exercise 1

Using the strategy which works better for you circle the fraction that is between

1)  $\frac{1}{2}$  and  $\frac{3}{5}$

$\frac{11}{20}$  or  $\frac{13}{20}$       0.55 or 0.65

2)  $\frac{1}{2}$  and  $\frac{5}{8}$

$\frac{9}{16}$  or  $\frac{7}{16}$       0.55 or 0.65

3)  $\frac{2}{3}$  and  $\frac{4}{5}$

$\frac{22}{30}$  or  $\frac{26}{30}$       0.65 or 0.67

4)  $\frac{6}{10}$  and  $\frac{3}{4}$

$\frac{17}{20}$  or  $\frac{13}{20}$       0.62 or 0.76

5)  $\frac{6}{8}$  and  $\frac{7}{8}$

$\frac{13}{16}$  or  $\frac{15}{16}$       0.74 or 0.80

6)  $\frac{9}{10}$  and  $\frac{11}{12}$

$\frac{107}{120}$  or  $\frac{109}{120}$       0.915 or 0.92