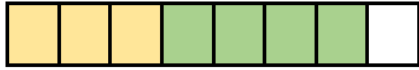


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Maths Tasks – Blue Challenge

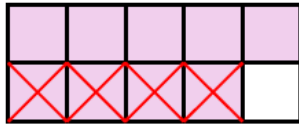
Use the model to complete the following calculation.

$$\frac{3}{8} + \frac{4}{8} = \frac{\square}{\square}$$



Use the image to complete the calculation.

$$\frac{9}{10} - \frac{4}{10} = \frac{\square}{\square}$$



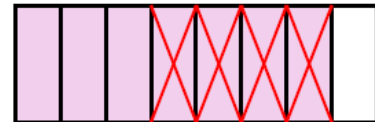
Use the model to complete the following calculation.

$$\frac{6}{12} + \frac{4}{12} = \frac{\square}{\square}$$



Use the image to complete the calculation.

$$\frac{7}{8} - \frac{4}{8} = \frac{\square}{\square}$$



Work out

1 $\frac{3}{6} + \frac{1}{6}$

2 $\frac{2}{5} + \frac{2}{5}$

3 $\frac{2}{4} + \frac{1}{4}$

4 $\frac{4}{7} + \frac{2}{7}$

5 $\frac{2}{12} + \frac{9}{12}$

6 $\frac{3}{8} + \frac{4}{8}$

7 $\frac{4}{10} + \frac{4}{10}$

8 $\frac{1}{5} + \frac{3}{5}$

9 $\frac{5}{9} + \frac{2}{9}$

10 $\frac{3}{11} + \frac{6}{11}$

11 $\frac{1}{8} + \frac{5}{8}$

12 $\frac{5}{12} + \frac{4}{12}$

13 $\frac{7}{10} - \frac{3}{10}$

14 $\frac{4}{6} - \frac{2}{6}$

15 $\frac{6}{8} - \frac{1}{8}$

16 $\frac{5}{5} - \frac{2}{5}$

17 $\frac{3}{4} - \frac{1}{4}$

18 $\frac{8}{9} - \frac{5}{9}$

19 $\frac{10}{12} - \frac{3}{12}$

20 $\frac{2}{3} - \frac{1}{3}$

21 $\frac{5}{7} - \frac{3}{7}$

22 $\frac{9}{10} - \frac{4}{10}$

23 $\frac{8}{12} - \frac{6}{12}$

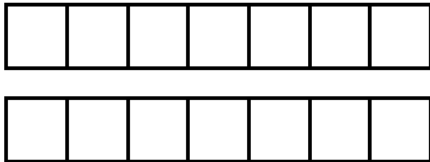
24 $\frac{5}{6} - \frac{4}{6}$

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Maths Tasks – Green Challenge

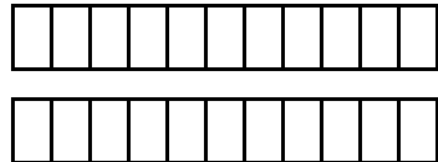
Shade the model to complete the following calculation.

$$\frac{4}{7} + \frac{6}{7} = \frac{\square}{\square}$$



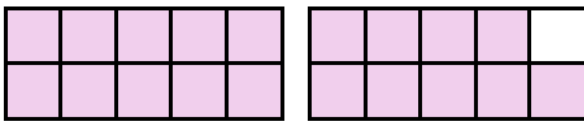
Shade the model to complete the following calculation.

$$\frac{6}{11} + \frac{9}{11} = \frac{\square}{\square}$$



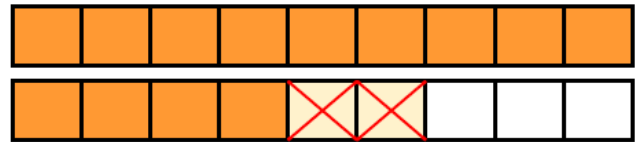
Use the images below to help you calculate the subtraction.

$$\frac{19}{10} - \frac{7}{10} = \frac{\square}{\square}$$



Circle the calculation that matches the representation.

$$\frac{14}{8} - \frac{2}{8} \qquad \frac{15}{9} - \frac{2}{9}$$



For each calculation, work out the answer and write as an improper fraction.
Then convert your answer to a mixed number.

$$\frac{4}{5} + \frac{3}{5} =$$

$$\frac{9}{3} - \frac{5}{3} =$$

$$\frac{5}{8} + \frac{7}{8} =$$

$$\frac{8}{4} - \frac{1}{4} =$$

$$\frac{6}{9} + \frac{8}{9} =$$

$$\frac{12}{7} - \frac{3}{7} =$$

$$\frac{10}{4} + \frac{5}{4} =$$

$$\frac{15}{5} - \frac{2}{5} =$$

$$\frac{8}{6} + \frac{9}{6} =$$

$$\frac{18}{6} - \frac{4}{6} =$$

More green challenge on the next page

$$\frac{4}{8} + \frac{5}{8} + \frac{3}{8} =$$

$$\frac{6}{3} - \frac{1}{3} - \frac{1}{3} =$$

$$\frac{5}{9} + \frac{4}{9} + \frac{6}{9} =$$

$$\frac{9}{4} - \frac{2}{4} - \frac{2}{4} =$$

$$\frac{3}{6} + \frac{8}{6} + \frac{7}{6} =$$

$$\frac{12}{5} - \frac{3}{5} - \frac{1}{5} =$$

$$\frac{4}{3} + \frac{2}{3} + \frac{5}{3} =$$

$$\frac{16}{7} - \frac{5}{7} - \frac{2}{7} =$$

$$\frac{6}{10} + \frac{5}{10} + \frac{12}{10} =$$

$$\frac{23}{8} - \frac{6}{8} - \frac{4}{8} =$$

$$\frac{5}{2} + \frac{4}{2} + \frac{3}{2} =$$

$$\frac{21}{5} - \frac{4}{5} - \frac{7}{5} =$$

$$\frac{7}{4} + \frac{5}{4} + \frac{6}{4} =$$

$$\frac{31}{9} - \frac{7}{9} - \frac{12}{9} =$$

$$\frac{5}{12} + \frac{14}{12} + \frac{8}{12} =$$

$$\frac{21}{3} - \frac{7}{3} - \frac{3}{3} =$$

Sharif eats $\frac{7}{10}$ of a pizza, Maria eats $\frac{9}{10}$ of a pizza.

How much pizza do they eat altogether?

Write your answer as an improper fraction and as a mixed number.

How much more pizza does Maria eat than Sharif?

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Maths Tasks – White Challenge

A chocolate bar has 12 equal pieces.

Amir eats $\frac{5}{12}$ more of the bar than Whitney.

There is one twelfth of the bar remaining.

What fraction of the bar does Amir eat?

What fraction of the bar does Whitney eat?

How many different ways can you balance the equation?

$$\frac{5}{9} + \frac{\square}{9} = \frac{8}{9} + \frac{\square}{9}$$

Asha is finding the missing numerator in the following calculation:

$$\frac{18}{12} - \frac{\square}{12} = 1 \frac{1}{4}$$



I think the missing numerator must be 17.

Is she correct? Explain why.

Ivor is finding the missing numerator in the following calculation:

$$\frac{\square}{8} + \frac{7}{8} = 1 \frac{1}{2}$$



I think the missing numerator must be 5.

Is he correct? Explain why.

More white challenge on the next page

Complete the fractions to make the calculation correct.

$$\frac{\square}{\square} - \frac{\square}{\square} = 1\frac{2}{5}$$

Find two possibilities.

Complete the fractions to make the calculation correct.

$$\frac{\square}{\square} + \frac{\square}{\square} = 1\frac{5}{6}$$

Find two possibilities.

Annie and Dexter both have a skipping rope.

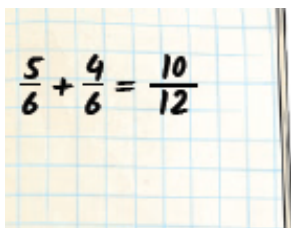
Annie's rope is $\frac{3}{4}$ m shorter than Dexter's rope.

The ropes are $\frac{13}{4}$ m altogether.

How long is each skipping rope?

Annie's rope is m long.

Dexter's rope is m long.



$$\frac{5}{6} + \frac{4}{6} = \frac{10}{12}$$

Greg is adding fractions.
Here is what he has written.
Greg is incorrect.

Using APE, explain clearly what he has done wrong and how you know. Then work out the correct answer.

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Maths Tasks – White+ Extension

Greg and Monica are sharing two different pizzas.

There is $\frac{2}{5}$ of one pizza left. Monica ate more than Greg.

What fraction of the two pizzas might they have eaten?

Find all possibilities.

$$\frac{4}{5} + \frac{?}{5} < \frac{?}{5} + \frac{3}{5}$$

Find 3 different ways to make this statement true. Each fraction in the statement must be less than 1.

$$\frac{?}{6} + \frac{2}{6} < \frac{8}{6} - \frac{?}{6}$$

Find all the possible ways to make this statement true.

Each fraction in the statement must be greater than 0.