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Maths Tasks – Blue Challenge

Solve these calculations by subtracting the numerators. Record your answer carefully.

$\frac{2}{7} - \frac{1}{7} =$

$\frac{9}{12} - \frac{3}{12} =$

$\frac{8}{10} - \frac{6}{10} =$

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

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

$\frac{6}{11} - \frac{3}{11} =$

$\frac{3}{6} - \frac{2}{6} =$

$\frac{3}{9} - \frac{1}{9} =$

$\frac{5}{10} - \frac{3}{10} =$

$\frac{4}{8} - \frac{3}{8} =$

$\frac{4}{11} - \frac{3}{11} =$

$\frac{2}{12} - \frac{1}{12} =$

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

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

$\frac{10}{12} - \frac{5}{12} =$

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Maths Tasks – Green Challenge

DIFFERENT DENOMINATORS

Convert one of the fractions to an equivalent fraction with the same denominator as the other fraction.

$\frac{11}{12} - \frac{1}{3} - \frac{11}{12} - \frac{4}{12} - \frac{7}{12}$

Complete the subtractions.

Use the bar models to help you.

a)

$\frac{5}{6} - \frac{1}{2} = \square$

b)

$\frac{5}{6} - \frac{1}{3} = \square$

c)

$\frac{7}{8} - \frac{3}{4} = \square$

d)

$\frac{1}{2} - \frac{3}{8} = \square$

Convert one of the fractions to an equivalent fraction with the same denominator.

The denominator to use is shown for you.

$\frac{2}{5} - \frac{1}{10} = \frac{\square}{10} - \frac{1}{10} = \frac{\square}{10}$

$\frac{5}{8} - \frac{1}{2} = \frac{5}{8} - \frac{\square}{8} = \frac{\square}{8}$

$\frac{4}{6} - \frac{3}{12} = \frac{\square}{\square} - \frac{3}{12} = \frac{\square}{\square}$

$\frac{11}{12} - \frac{2}{3} = \frac{11}{12} - \frac{\square}{\square} = \frac{\square}{\square}$

More green challenge on the next page

Match the equivalent calculations.

$\frac{3}{4} - \frac{3}{20}$	$\frac{10}{20} - \frac{3}{20}$
$\frac{4}{5} - \frac{3}{20}$	$\frac{16}{20} - \frac{3}{20}$
$\frac{7}{10} - \frac{3}{20}$	$\frac{15}{20} - \frac{3}{20}$
$\frac{1}{2} - \frac{3}{20}$	$\frac{14}{20} - \frac{3}{20}$

Now have a go at converting one of the fractions to an equivalent fraction with the same denominator.

This time, the denominator is not given to you so you will need to look carefully…

$\frac{7}{8} - \frac{1}{16} = \square$	$\frac{6}{7} - \frac{2}{21} = \square$
$\frac{5}{8} - \frac{1}{16} = \square$	$\frac{5}{7} - \frac{4}{21} = \square$
$\frac{3}{8} - \frac{1}{16} = \square$	$\frac{4}{7} - \frac{6}{21} = \square$
$\frac{1}{8} - \frac{1}{16} = \square$	$\frac{3}{7} - \frac{8}{21} = \square$

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Maths Tasks – White Challenge

Jack walks $\frac{7}{9}$ km to school.

Aisha walks $\frac{2}{3}$ km to school.

How much further does Jack walk than Aisha?

On Saturday, Alex cycles for $\frac{2}{3}$ of an hour.

On Sunday, she cycles for $\frac{5}{12}$ of an hour.

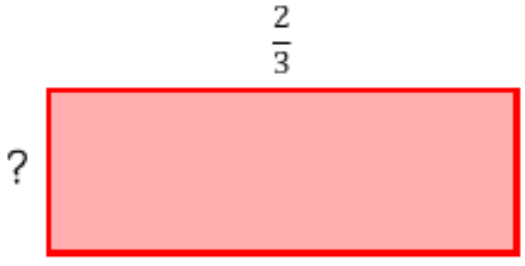
a) How many more hours does Alex cycle on Saturday than Sunday?

☐ of an hour

b) How many more minutes does Alex cycle on Saturday than Sunday?

☐ minutes

The perimeter of the rectangle is $\frac{16}{9}$



Work out the missing length.

More white challenge on the next page

Which subtraction is the odd one out?

A $\frac{13}{4} - \frac{3}{8}$

B $\frac{10}{3} - \frac{2}{9}$

C $\frac{23}{7} - \frac{1}{3}$

Explain why.

Mrs Gill shows Class 5 two fractions:

$\frac{15}{21}$ $\frac{2}{7}$

Jason says,

The difference between them is $\frac{13}{14}$.

Explain the mistake that he has made.

Mr Toft shows Class 5 two fractions:

$\frac{30}{27}$ $\frac{6}{9}$

Nina says,

The difference between them is $\frac{24}{27}$.

Explain the mistake that she has made.

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Maths Tasks – White+ Extension

Two children took their leftover brownies home from the school disco.

Tess had $\frac{4}{5}$ left and gave her mum $\frac{2}{6}$.

Lee took $\frac{2}{3}$ home and gave his dad $\frac{2}{5}$.

Who is left with the most brownies?

Two children took their leftover sandwiches home from a picnic.

Ella had $\frac{3}{4}$ left and gave her dad $\frac{3}{5}$.

Bo took $\frac{4}{5}$ home and gave his mum $\frac{2}{8}$.

Who is left with the most sandwiches?