Maths
(1)

Write the lowest common multiple of the pairs of numbers
a) 3, 9
c) 6,10
e) 12,5
b) 6,9
d) 12,10
f) 12,6
(2)
a) Use the bar model to show that $\frac{2}{3}+\frac{1}{6} \equiv \frac{4}{6}+\frac{1}{6}$


What is the answer to $\frac{2}{3}+\frac{1}{6}$ ?
Using the same bar model, work out the answers to the calculations.
b) $\frac{5}{6}-\frac{1}{3}$
c) $\frac{1}{3}+\frac{1}{6}$
d) $\frac{1}{2}+\frac{1}{3}$
(3) Match the number line to the calculation and complete the calculation.


Which answers can be simplified?

$$
\frac{1}{2}+\frac{1}{4}=\square
$$

$$
\frac{2}{3}-\frac{1}{6}=\square
$$

$$
\frac{2}{3}-\frac{1}{9}=\square
$$

What fractional calculations are the arrays representing? Give all fractions in their simplest form.
a)

c)

b)

d)
Which calculation is equivalent to $\frac{1}{10}+\frac{1}{15}$ ? $\frac{1.5}{15}+\frac{1}{15}$
$\frac{1}{30}+\frac{1}{30}$
$\frac{3}{30}+\frac{2}{30}$
$\frac{3}{10}+\frac{2}{15}$
How do you know? Talk to a partner.

6 Work out the calculations using equivalent fractions.
Give your answers in their simplest form.
a) $\frac{1}{6}+\frac{1}{18}$
b) $\frac{5}{9}+\frac{1}{18}$
c) $\frac{2}{3}-\frac{2}{9}$
d) $\frac{20}{21}-\frac{3}{7}$
e) $\frac{9}{20}+\frac{5}{10}$
f) $\frac{4}{9}+\frac{1}{6}$
g) $\frac{7}{10}-\frac{1}{4}$
h) $\frac{4}{15}+\frac{3}{10}$

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What fractional calculations are the arrays representing?
Give all fractions in their simplest form.
a)


b)

(5) Which calculation is equivalent to $\frac{1}{10}+\frac{1}{15}$ ? $\frac{1.5}{15}+\frac{1}{15} \quad \frac{1}{30}+\frac{1}{30} \quad \frac{3}{30}+\frac{2}{30} \quad \frac{3}{10}+\frac{2}{15}$

How do you know? Talk to a partner.

6 Work out the calculations using equivalent fractions.
Give your answers in their simplest form.
a) $\frac{1}{6}+\frac{1}{18}$
b) $\frac{5}{9}+\frac{1}{18}$
c) $\frac{2}{3}-\frac{2}{9}$
d) $\frac{20}{21}-\frac{3}{7}$
e) $\frac{9}{20}+\frac{5}{10}$
f) $\frac{4}{9}+\frac{1}{6}$
g) $\frac{7}{10}-\frac{1}{4}$
h) $\frac{4}{15}+\frac{3}{10}$Work out the calculations.
Give your answers in their simplest form.
a) $\frac{5}{18}+\frac{1}{36}+\frac{1}{6}$
b) $\frac{11}{12}-\frac{11}{30}-\frac{1}{5}$Solve the equation $x+\frac{2}{3}=\frac{7}{12}$
(9)

Here are some number cards.

a) What is the smallest positive answer you can make using the cards in these calculations?

You can use each card only once per calculation.

b) Where would you put the number cards to make a total of $\frac{1}{5}$ ? What about a negative answer?

