Maths
a) Which are unit fractions?

| $\frac{1}{2}$ | $\frac{2}{3}$ | $\frac{4}{1}$ | $\frac{1}{10}$ | $\frac{2}{8}$ |
| :--- | :--- | :--- | :--- | :--- |

b) Write three more unit fractions.
c) Describe, in your own words, what is meant by a unit fraction.Use the bar models to help you with the calculations.
a) $\frac{1}{3}+\frac{1}{3}$

b) $\frac{1}{4}+\frac{1}{4}+\frac{1}{4}$

C) $\frac{1}{5}+\frac{1}{5}+\frac{1}{5}$

d) $\frac{1}{5}+\frac{1}{5}-\frac{1}{5}$


3 Use the number lines to help you with the calculations.
a) $\frac{1}{3}+\frac{1}{3}=$

b) $\frac{1}{6}+\frac{1}{6}+\frac{1}{6}$

c) $\frac{1}{12}+\frac{1}{12}+\frac{1}{12}+\frac{1}{12}$


Write the fractions as sums of unit fractions.
a) $\frac{2}{3}=\square+\square$
d) $\frac{3}{14}=$ $\qquad$
b) $\frac{2}{7}=\square+\square$
e) $\frac{4}{14}=$ $\qquad$

f) $\frac{7}{14}=$ $\qquad$
5.


Is Dexter correct?
Explain your reasoning.

Fill in the missing denominators and show the calculations on the number lines.
a) $\frac{1}{\square}+\frac{1}{\square}=\frac{2}{4}$
b) $\frac{1}{\square}-\frac{1}{\square}=\frac{0}{7}$
Write the fractions as sums of unit fractions.
a) $\frac{2}{3}=\square+\square$
d) $\frac{3}{14}=$ $\qquad$
b) $\frac{2}{7}=\square+$

e) $\frac{4}{14}=$ $\qquad$
c) $\frac{3}{7}=$

f) $\frac{7}{14}=$ $\qquad$

5


Is Dexter correct?
Explain your reasoning.

6 Fill in the missing denominators and show the calculations on the number lines.
a) $\frac{1}{\square}+\frac{1}{\square}=\frac{2}{4}$
b) $\frac{1}{\square}-\frac{1}{\square}=\frac{0}{7}$

c) $\frac{3}{5}=\frac{1}{\square}+\frac{1}{\square}+\frac{1}{\square}+\frac{1}{\square}-\frac{1}{\square}$

d) $\frac{5}{5}=\frac{1}{\square}+\frac{1}{\square}+\frac{1}{\square}+\frac{1}{\square}+\frac{1}{\square}$


What do you notice about part d)? Discuss with a partner.
7. Complete the calculations by adding or subtracting unit fractions.
a) $\frac{3}{5}=\frac{1}{5}+\frac{1}{5}$ $\qquad$ C) $\frac{9}{9}=\frac{1}{9}+\frac{1}{9}+\frac{1}{9}+\frac{1}{9}+\frac{1}{9}+\frac{1}{9}$ $\qquad$
b) $\frac{2}{5}=\frac{1}{5}+\frac{1}{5}+\frac{1}{5}$ $\qquad$ d) $\frac{0}{6}=\frac{1}{6}+\frac{1}{6}$ $\qquad$
8 Complete the addition and the sentences to show how you can use unit fractions to make a whole.
Use the bar models to help.
a) $\frac{4}{4}=\frac{1}{4}+$ $\qquad$
$\square$ You need to add $\frac{1}{4} \square$ times to make a whole.
b) $\frac{\square}{6}=\frac{1}{6}+$ $\qquad$
You need to add $\frac{1}{6}$ $\square$ times to make a whole.
c) $\frac{\square}{20}=\frac{1}{\square}+$


You need to add $\frac{1}{\square} \square$ times to make a whole.
Why is it not suitable to draw a bar model for part c)?
$\square$


