Maths

I Use a fraction wall to write each fraction in its simplest form.
a) $\frac{4}{6}$
b) $\frac{8}{10}$
c) $\frac{6}{8}$
d) $\frac{4}{8}$
(2) a) Use a fraction wall to explain why $\frac{7}{10}$ does not simplify.
b) Find three more fractions on the fraction wall that cannot be simplified.
(3)

Mo, Eva and Ron are trying to simplify $\frac{5}{20}$


Do you fully agree, partly agree or completely disagree with each person?

Talk to a partner.
a) Draw lines on the bar model to show that $\frac{9}{12}$ is equal to $\frac{3}{4}$
b) Complete each bar model and calculation.

(5)

Simplify the fractions.
a) $\frac{4}{12}$
b) $\frac{8}{12}$ $\frac{8}{12}$
$\frac{8}{16}$
$\frac{8}{20}$
c) $\frac{40}{120}$ $\frac{40}{120}$
$\frac{40}{160}$
$\frac{40}{200}$
d) $\frac{12}{4}$ $\frac{4}{16}$
$\frac{4}{20}$ $\frac{8}{12}$
$\frac{8}{16}$
$\frac{8}{20}$ $\frac{40}{120}$
$\frac{40}{160}$
$\frac{40}{200}$
$\frac{120}{4}$
$\frac{12}{400}$

Describe and explain any patterns that you noticed.



Simplify the fractions.
(4) a) Draw lines on the bar model to show that $\frac{9}{12}$ is equal to $\frac{3}{4}$

b) Complete each bar model and calculation.


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Simplify the fractions.
a) $\frac{4}{12}$
b) $\frac{8}{12}$
$\frac{8}{16}$
$\frac{8}{20}$
c) $\frac{40}{120}$
$\frac{40}{160}$
$\frac{40}{200}$
d) $\frac{12}{4}$
$\frac{120}{4}$
$\frac{12}{400}$

Describe and explain any patterns that you noticed.

6 Write 3 fractions that simplify to $\frac{3}{5}$
(7) Teddy and Dora are both simplifying $\frac{30}{42}$

a) How do you think Dora was able to simplify the fraction in one step?
b) Simplify these fractions in one step.
$\frac{24}{30}$
$\frac{56}{64}$
$\frac{16}{20}$
$\frac{99}{121}$
(8) $\frac{\sim}{\sim}$ is a prime number.
is a multiple of 10
The fraction can be simplified.
What could each number be? Explain your reasoning.

