## Homework

## Friday 10 ${ }^{\text {th }}$ November 2023

Please complete the following:

| English | Reading <br> Read at home on at least three separate occasions. <br> Spellings <br> Practise your spellings. These will be uploaded on <br> Spelling shed too. You will have a test on Friday. We <br> will be practising these in school as well! |
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| Mathematics | Maths <br> Equivalent Fractions. Complete the following <br> questions in your homework book. <br> Mild -Q 1, 2, 3 and 4. <br> Hot - Q 2,3,4 and 5. <br> Flamin - Q 4,5,6,7 and 8. <br> Please remember to practise your times tables <br> on TT Rockstars too. |

Please make sure your homework is handed in by Wednesday.
If you need any further guidance on how to complete the tasks, please ask! Don't leave it until Wednesday!

Remember, have a go and try your best!
(1) Here is a fraction wall.

| 1 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\frac{1}{2}$ |  |  |  |  | $\frac{1}{2}$ |  |  |  |  |
| $\frac{1}{3}$ |  |  | $\frac{1}{3}$ |  |  |  | $\frac{1}{3}$ |  |  |
| $\frac{1}{4}$ |  | $\frac{1}{4}$ |  |  | $\frac{1}{4}$ |  |  | $\frac{1}{4}$ |  |
| $\frac{1}{5}$ |  | $\frac{1}{5}$ |  | $\frac{1}{5}$ |  | $\frac{1}{5}$ |  | $\frac{1}{5}$ |  |
| $\frac{1}{6}$ |  | $\frac{1}{6}$ | $\frac{1}{6}$ |  | $\frac{1}{6}$ |  | $\frac{1}{6}$ |  | $\frac{1}{6}$ |
| $\frac{1}{7}$ | $\frac{1}{7}$ |  | $\frac{1}{7}$ | $\frac{1}{7}$ |  | $\frac{1}{7}$ | $\frac{1}{7}$ |  | $\frac{1}{7}$ |
| $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ |  | $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ |  | $\frac{1}{8}$ | $\frac{1}{8}$ |
| $\frac{1}{9}$ | $\frac{1}{9}$ | $\frac{1}{9}$ | $\frac{1}{9}$ |  |  | $\frac{1}{9}$ | $\frac{1}{9}$ | $\frac{1}{9}$ | $\frac{1}{9}$ |
| $\frac{1}{10}$ | $\frac{1}{10}$ | $\frac{1}{10}$ | $\frac{1}{10}$ | $\frac{1}{10}$ | $\frac{1}{10}$ | $\frac{1}{10}$ | $\frac{1}{10}$ | $\frac{1}{10}$ | $\frac{1}{10}$ |

Use the 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 about it with a partner.
(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.

(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 about it with a partner.
(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.

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

Describe and explain any patterns that you notice.
(6) Write three fractions that simplify to $\frac{3}{5}$
(7) Teddy and Dora are both simplifying $\frac{30}{42}$

| Teddy |
| :---: | :---: |
| $\frac{30}{42}=\frac{15}{21}=\frac{5}{7} \quad$Dora <br> $\frac{30}{42}=\frac{5}{7}$ l |

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) $\{$ is a prime number.

$\bigcirc$is a multiple of 10
The fraction $\frac{\tilde{m}}{\square}$ can be simplified.
Find a pair of possible values.
Are there any other possible answers? Talk about it with a partner.

