Starter:

★	★★
A1.↻ 93 × 72	B1.↻ 38 × 320
A2.↻ 44 × 83	B2.↻ 793 × 53
A3.↻ 42 × 57	B3.↻ 74 × 691
A4.↻ 19 × 19	B4.↻ 307 × 31
A5.↻ 25 × 27	B5.↻ 617 × 98

Starter:

★	★★
A1.↻ 6696	B1.↻ 12160
A2.↻ 3652	B2.↻ 42029
A3.↻ 2394	B3.↻ 51134
A4.↻ 361	B4.↻ 9517
A5.↻ 675	B5.↻ 60466

LO: to simplify fractions

What does it mean to simplify a fraction?

How do we simplify them?

LO: to simplify fractions

Simplifying (or reducing) fractions means to make the fraction as simple as possible.

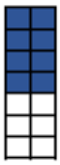
A fraction can be simplified if the numerator (top value) and the denominator (bottom value) are both divisible by the same number. By finding a common value to divide both values by, a fraction can be simplified to make it easier to use in other calculations.

LO: to simplify fractions

Group 1 - Complete the fluency questions in your book

you do

12a. Which image(s) show $\frac{4}{7}$?

A  B  C 

VF

13a. Complete the equivalent fraction statement.

$$\frac{?}{64} = \frac{28}{32} = \frac{7}{?}$$

VF

14a. Match the fractions on the left to their simplest form on the right.

$\frac{63}{49}$	$\frac{1}{15}$
$\frac{3}{45}$	$\frac{9}{7}$
$\frac{2}{150}$	$\frac{1}{75}$

VF

15a. Which fractions are shown in their simplest form?

$\frac{2}{564}$ $\frac{8}{24}$ $\frac{4}{9}$ $\frac{6}{17}$ $\frac{13}{36}$

LO: to simplify fractions

I do

$\frac{16}{24}$ ÷4 ÷4

$\frac{4}{6}$ ÷2 ÷2

$\frac{2}{3}$

LO: to simplify fractions

I do

$\frac{18}{27}$ ÷3 ÷3

$\frac{6}{9}$ ÷3 ÷3 $\frac{2}{3}$

$\frac{18}{27}$ ÷9 ÷9

$\frac{2}{3}$

LO: to simplify fractions

we do

$$\frac{3}{15}$$

$$\frac{18}{54}$$

LO: to simplify fractions

you do

$\frac{8}{10}$ $\frac{4}{5}$

$\frac{28}{64}$ ÷2 ÷2 $\frac{14}{32}$ ÷2 ÷2 $\frac{7}{16}$

LO: to simplify fractions

we do

Match the fraction with its simplified fraction.

$\frac{6}{9}$ $\frac{4}{10}$ $\frac{10}{20}$ $\frac{10}{15}$ $\frac{9}{15}$

$\frac{3}{5}$ $\frac{2}{5}$ $\frac{2}{3}$ $\frac{1}{2}$

LO: to simplify fractions

we do

Which fractions are shown in their simplest form?

$\frac{2}{5}$ $\frac{3}{9}$ $\frac{6}{15}$

$\frac{9}{36}$ $\frac{7}{15}$

LO: to simplify fractions

you do

9a. Match the fractions on the left to their simplest form on the right.

$\frac{5}{45}$ $\frac{1}{4}$

$\frac{7}{28}$ $\frac{1}{2}$

$\frac{16}{32}$ $\frac{1}{9}$

VF

10a. Which fractions are shown in their simplest form?

$\frac{3}{18}$ $\frac{8}{24}$ $\frac{31}{36}$

$\frac{6}{24}$ $\frac{7}{36}$

VF

5 minutes

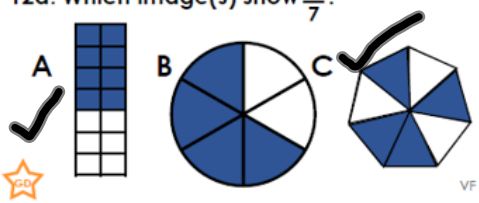
Glue in and complete in your books.

LO: to simplify fractions

Group 1 - Mark with pink highlighter

we do

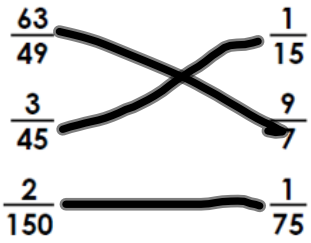
12a. Which image(s) show $\frac{4}{7}$?



13a. Complete the equivalent fraction statement.

$\frac{56}{64} = \frac{28}{32} = \frac{7}{8}$

14a. Match the fractions on the left to their simplest form on the right.



15a. Which fractions are shown in their simplest form?

$\frac{2}{564}$ $\frac{8}{24}$ $\frac{4}{9}$ $\frac{6}{17}$ $\frac{13}{36}$

LO: to simplify fractions

we do

Hassan thinks that $\frac{2}{5}$ in its simplest terms is $\frac{1}{2.5}$

Do you agree? Convince me.

HOW should we explain the answer?

Always, sometimes, never?

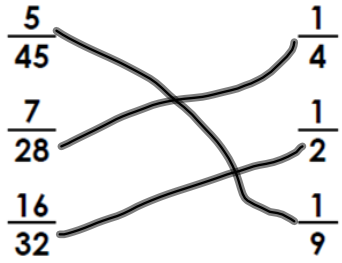
To simplify a fraction you divide by 2 until you can't divide by 2 anymore.

True or false, $\frac{1}{?}$ is always a fraction in its simplest form?

LO: to simplify fractions

we do

9a. Match the fractions on the left to their simplest form on the right.



VF

10a. Which fractions are shown in their simplest form?

3/18 8/24 31/36 6/24 7/36

VF

Use your pink highlighter to mark.

LO: to simplify fractions

we do

Sam has simplified $\frac{6}{12}$

$\frac{6}{12}$ $\frac{3}{6}$

What method has he used?

Is this the most efficient method?
Explain your answer.

6a. Sasha says,



This fraction can be simplified to $\frac{8}{14}$ because 2 is the highest common factor.



Is she correct? Prove it.

Which of these is the Odd One Out?

$\frac{12}{16}$ $\frac{16}{18}$ $\frac{15}{20}$ $\frac{30}{40}$

5a. Fionn is finding the simplest form of the fraction $\frac{81}{108}$.



This is the simplest form as 81 is a prime number.

Has Fionn found the simplest form?
Explain your answer.

LO: to simplify fractions

we do

PROBLEM SOLVING 1

Caleb is thinking of a fraction...



It simplifies to 9/10.

The denominator is a multiple of 20.

The numerator has a digit that is a prime number.

All the digits in the numerator are greater than 3.

What could Caleb's fraction be?

Answers MA RPS

Odd one out

D – One of them is different to the others

A – 16/18 is the Odd One Out

B – 12/16, 15/20 and 30/40 all simplify to 3/4 but 16/18 simplifies to 8/9

Problem Solving 1

Caleb's fraction is 54/60

6a. Sasha is incorrect, $\frac{16}{28}$ simplified is $\frac{4}{7}$

Sam - more effective if realise both have a common factor of 3

Fionn - both multiples of 9 so incorrect

Answers HA RPS

9a - Lara has divided by 25, then 2. Most efficient to divide by 50

Hassan - A fraction is a decimal

Match up -

7a. Various answers, for example:

A: $\frac{6}{18} = \frac{1}{3}$ HCF 6, $\frac{6}{9} = \frac{2}{3}$ HCF 3

B: $\frac{6}{30} = \frac{1}{5}$ HCF 6, $\frac{6}{10} = \frac{3}{5}$ HCF 2,

$\frac{6}{15} = \frac{2}{5}$ HCF 3

True - 1 can't be divided any smaller

Sometimes - there may be a HCF which would make it more efficient