



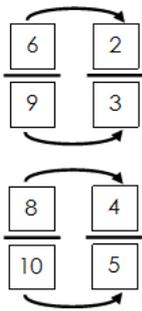
DEEPENING UNDERSTANDING ANSWER SHEET

YEAR 6 PIM – SIMPLIFY FRACTIONS

Fluency 1

If we divide the fraction's numerator and denominator by the highest common factor, we will find its simplest form.

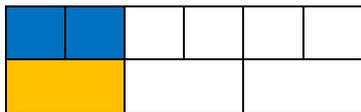
Fluency 2



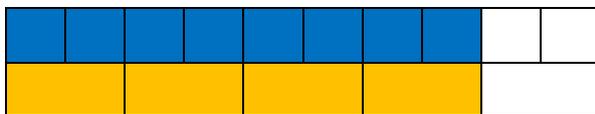
Fluency 3



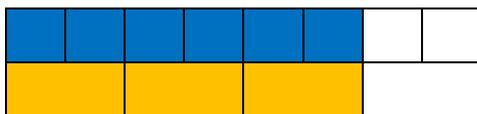
$$10/12 = 5/6$$



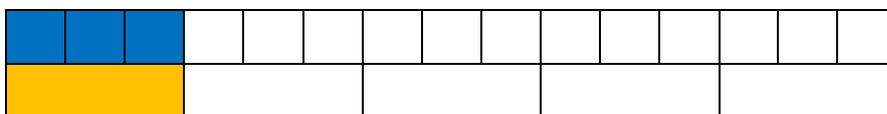
$$2/6 = 1/3$$



$$8/10 = 4/5$$



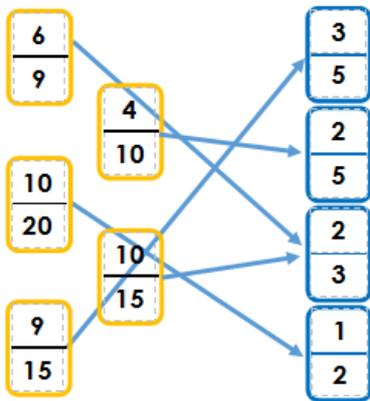
$$6/8 = 3/4$$



$$3/15 = 1/5$$



Fluency 4



Reasoning 1

Modelled DAB Reasoning Responses

D – I agree

A – $\frac{7}{12}$ cannot be simplified

B – There are no common factors between 7 and 12 because 7 is a prime number.

Reasoning 2

Modelled DAB Reasoning Response

D – It is always true

A – To simplify a fraction, the numerator and denominator are divided by a common factor so they will be smaller

B – For example – $\frac{10}{12} = \frac{5}{6}$ and $\frac{4}{8} = \frac{1}{2}$

Reasoning 3

Modelled DAB Reasoning Response

D – One of them is different to the others

A – $\frac{16}{18}$ is the Odd One Out

B – $\frac{12}{16}$, $\frac{15}{20}$ and $\frac{30}{40}$ all simplify to $\frac{3}{4}$ but $\frac{16}{18}$ simplifies to $\frac{8}{9}$

Reasoning 4

Modelled DAB Reasoning Response

D – Darcey has made a mistake

A – $20/24$ has not been simplified to its simplest form.

B – The simplest form of $20/24$ is $5/6$

Download our 'DAB' posters to support reasoning in your classroom:

<https://www.deepeningunderstanding.co.uk/product/dab-reasoning-posters/>

Problem Solving 1

Caleb's fraction is $54/60$

Problem Solving 2

There are many possibilities

$$1/2 = 3/6 = 4/8 = 2/4$$

$$1/4 = 2/8$$

$$1/3 = 2/6 = 3/9$$

$$2/3 = 4/6 = 6/9$$

$$3/4 = 6/8$$

