LO: to add fractions

we do

REASONING 2

Which calculation is easier?

$$4\frac{2}{5} + 3\frac{5}{9}$$

$$4\frac{1}{3} + 3\frac{3}{5}$$

Justify your choice.

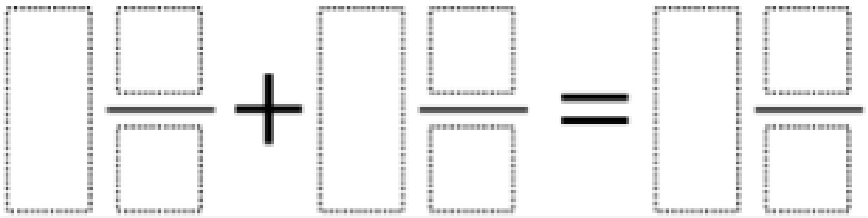
Discuss with your partner - what reasons would we have?

LO: to add fractions

we do

ADDING MIXED NUMBERS 3

Directions: Use the digits 1-9 each once to make a the largest possible sum.



1 2 3 4 5 6 7 8 9

LO: to add fractions

Complete the RPS questions in your book.
Make sure you are finding all the possibilities when asked to.

you do

Chen says,



If I add $1\frac{3}{4}$ to my fraction, I get an answer of $\frac{91}{20}$.

What fraction did Chen start with? Give your answer as a mixed number.

REASONING 2

Which calculation is easier?

$4\frac{2}{5} + 3\frac{5}{9}$

$4\frac{1}{3} + 3\frac{3}{5}$

Justify your choice.

REASONING 4

Which method would you choose to find this total?

$9\frac{11}{25} + 7\frac{3}{5} = \square$

Explain why.

PROBLEM SOLVING 1

Which fractions add together to give a total nearest to 10?

$4\frac{5}{6}$ $2\frac{1}{4}$ $3\frac{4}{5}$ $1\frac{6}{9}$ $1\frac{1}{6}$

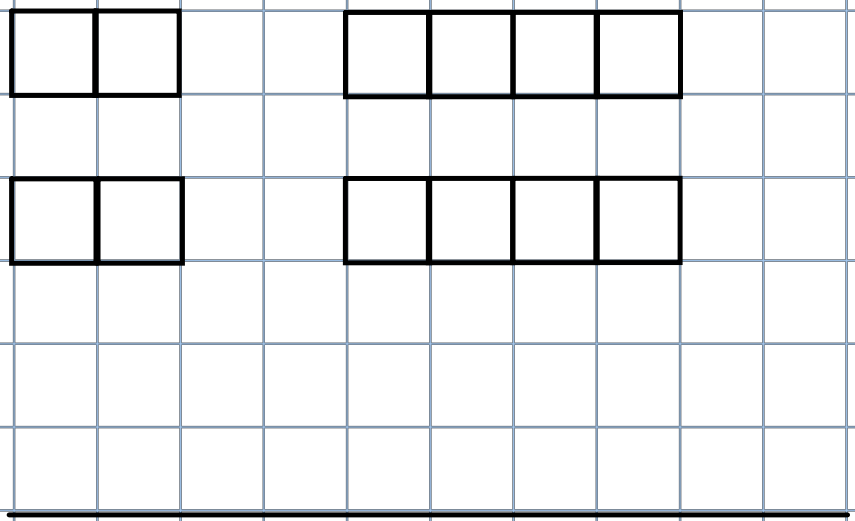
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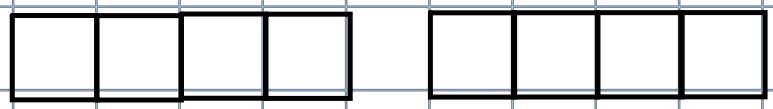
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$\square\frac{\square}{\square} + \square\frac{\square}{\square} = \square\frac{\square}{\square}$

LO: to add fractions

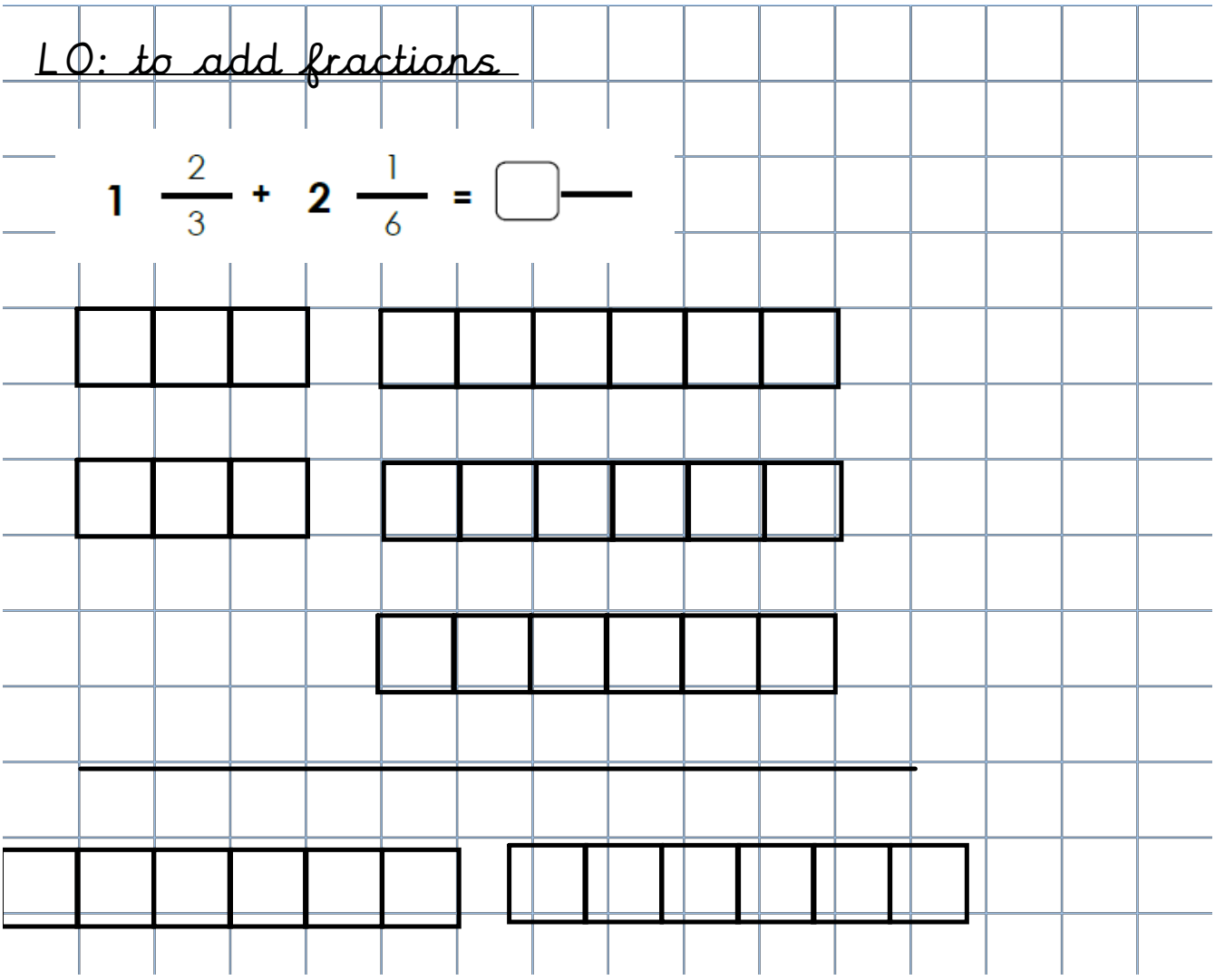
$2\frac{1}{2} + 1\frac{3}{4} = \square$





LO: to add fractions

$1\frac{2}{3} + 2\frac{1}{6} = \square$



Pink highligher at the ready....let's mark.

we do

7a. $2\frac{4}{5}$ Chen

Reasoning 2

Modelled DAB Reasoning Response

D – I think that $4\frac{1}{3} + 3\frac{3}{5}$ is easier.

A – It takes less time to convert the fractions and add them up.

B – 3 and 5 share a low common denominator of 15 and have small numerators when converted (5 and 9) making them easy to add up quickly.

Reasoning 4

Modelled DAB Reasoning Response

D – I would add the wholes then the fractions.

A – This is a more efficient method than working out the improper fraction

B – She has not found the common denominator or equivalent fractions before adding the numerators.

9 + 7 = 16

$\frac{11}{25} + \frac{3}{5} = \frac{11}{25} + \frac{15}{25} = 1\frac{1}{25}$

$16 + 1\frac{1}{25} = \boxed{17}\frac{1}{25}$

Pink highlighter at the ready....let's mark.

we do

Problem Solving 1

$4\frac{5}{6}$ $3\frac{4}{5}$ $1\frac{6}{9}$

What could the values of A, B and C be?

$$\frac{4}{9}+\frac{A}{6}+\frac{B}{9}+\frac{C}{6}=1\frac{5}{6}$$

How many different values can you find?

A=3

B=5

C=2

Chen says,



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REASONING 4

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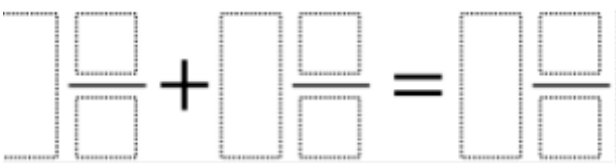
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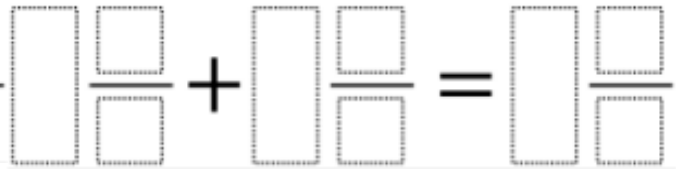
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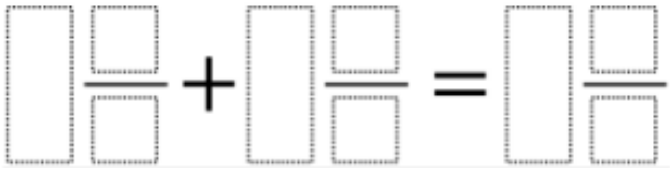
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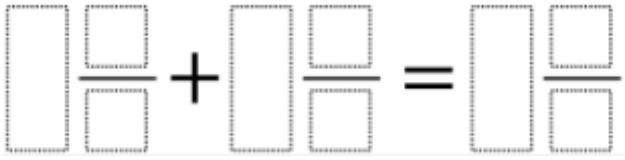
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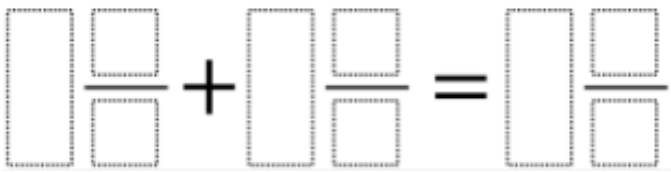
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ADDING MIXED NUMBERS 3

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- Here are 10 fractions cards.

$\frac{1}{3}$ $\frac{1}{2}$ $\frac{1}{9}$ $\frac{4}{18}$ $\frac{1}{6}$ $\frac{3}{9}$ $\frac{12}{18}$ $\frac{2}{3}$ $\frac{9}{18}$ $\frac{16}{18}$

By pairing the cards up can you put them into three categories?

Have a sum of less than 1	Have a sum of 1	Have a sum of more than 1

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