LO: to subtract fractions

we do

$\frac{2}{5} - \frac{1}{5}$	$\frac{1}{5}$
$\frac{3}{11} - \frac{1}{11}$	$\frac{2}{11}$
$\frac{5}{5} - \frac{1}{5}$	$\frac{4}{5}$
$\frac{4}{5} - \frac{1}{5}$	$\frac{3}{5}$
$\frac{6}{6} - \frac{2}{6}$	$\frac{2}{3}$
$\frac{5}{6} - \frac{2}{6}$	$\frac{1}{2}$
$\frac{4}{10} - \frac{1}{10}$	$\frac{3}{10}$

What makes these easy to answer?

LO: to subtract fractions

we do

Today we are going to subtract fractions with different denominators.

How is it similar to adding fractions?

How is it different?

LO: to subtract fractions

I do

$$\frac{5}{7} - \frac{2}{4} =$$

LO: to subtract fractions

we do

$\frac{4}{6} - \frac{2}{9} =$

$\frac{7}{8} - \frac{2}{5} =$

LO: to subtract fractions

Complete in books, showing all your workings out.

you do

$\frac{3}{8} - \frac{2}{7}$	$\frac{5}{56}$
$\frac{3}{4} - \frac{6}{8}$	0
$\frac{5}{10} - \frac{1}{3}$	$\frac{1}{6}$
$\frac{5}{11} - \frac{2}{6}$	$\frac{4}{33}$
$\frac{7}{11} - \frac{1}{3}$	$\frac{10}{33}$

LO: to subtract fractions

Complete in books, showing all your workings out.

you do

$\frac{1}{2} - \frac{1}{4} =$	$\frac{1}{2} - \frac{1}{4} = \boxed{\frac{1}{4}}$
$\frac{1}{3} - \frac{1}{6} =$	$\frac{1}{3} - \frac{1}{6} = \boxed{\frac{1}{6}}$
$\frac{2}{3} - \frac{1}{6} =$	$\frac{2}{3} - \frac{1}{6} = \boxed{\frac{1}{2}}$
$\frac{3}{4} - \frac{1}{2} =$	$\frac{3}{4} - \frac{1}{2} = \boxed{\frac{1}{4}}$
$\frac{5}{6} - \frac{1}{3} =$	$\frac{5}{6} - \frac{1}{3} = \boxed{\frac{1}{2}}$
$\frac{5}{6} - \frac{2}{3} =$	$\frac{5}{6} - \frac{2}{3} = \boxed{\frac{1}{6}}$

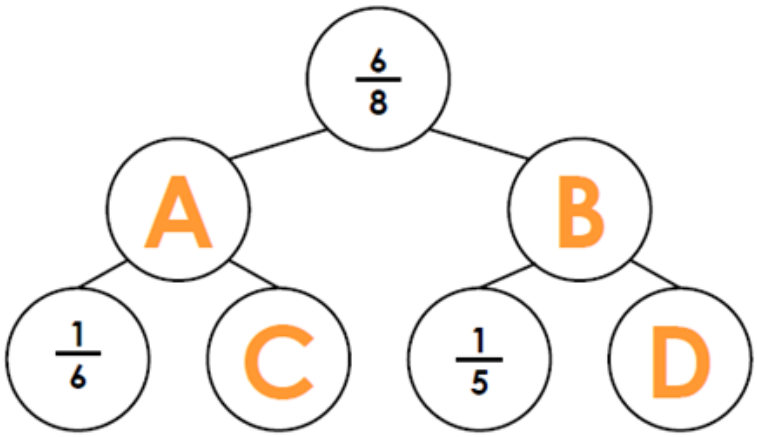
LO: to subtract fractions.

we do

you do

9b. Complete the part whole model.

Hint B is double A.



Complete in books.

Don't forget to simplify!

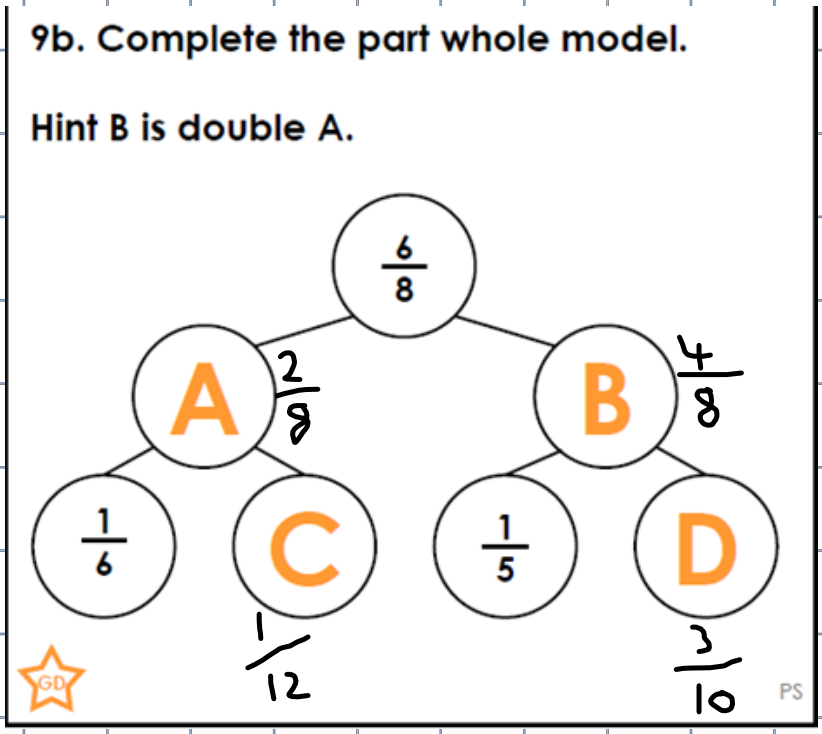
LO: to subtract fractions

we do

Pink highlighter at the ready....here is the answer!

9b. Complete the part whole model.

Hint B is double A.



LO: to subtract fractions

I do

$$4\frac{1}{7} - 2\frac{4}{6} =$$

LO: to subtract fractions

we do

$5\frac{2}{6} - 1\frac{3}{5} =$

$4\frac{3}{4} - 2\frac{1}{6} =$

LO: to subtract fractions

Complete in books, showing all your workings out.

you do

$1\frac{7}{9} - 1\frac{9}{12}$

$3\frac{3}{11} - 2\frac{1}{7}$

$3\frac{4}{5} - 2\frac{3}{6}$

$3\frac{6}{11} - 1\frac{3}{8}$

$3\frac{6}{9} - 3\frac{9}{16}$

$\frac{1}{36}$

$1\frac{10}{77}$

$1\frac{3}{10}$

$2\frac{15}{88}$

$\frac{5}{48}$

LO: to subtract fractions

we do

REASONING 3

Jane thinks that she does not need to convert these fractions in order to subtract them.



$$2\frac{3}{4} - 1\frac{1}{2}$$

Do you agree? Why / Why not?

REASONING 4

Spot the mistake.

$$4\frac{5}{9} - 3\frac{2}{3} = 1\frac{1}{9}$$

LO: to subtract fractions

we do

$a = d - 7$

$c + c = 2$

$3 \times 4 = d$

$b = a - 3$

Use this information to complete the following calculation and find the value of e.

$$a\frac{c}{b} - 3\frac{c}{d} = e\frac{a}{d}$$

LO: to subtract fractions

we do

you do

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Complete in books:

Reasoning 3

Reasoning 4

Value of e

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Pink highlighter at the ready....here is the answer!

Reasoning 3

Modelled DAB Reasoning Response

D – I agree with Jane.

A – I do not need to convert the fractions to subtract them.

B – I know that $\frac{3}{4} - \frac{1}{2} = \frac{1}{4}$ so $2\frac{3}{4} - 1\frac{1}{2} = 1\frac{1}{4}$

Reasoning 4

Modelled DAB Reasoning Response

D – The answer is incorrect.

A – The second fraction has been converted to ninths and its numerator (6) has subtracted the first fraction's numerator (5). The mixed numbers need to be converted to improper fractions to complete the calculation.

B – The calculation should be:

$$4\frac{5}{9} - 3\frac{2}{3} = 4\frac{5}{9} - 3\frac{6}{9} = \frac{41}{9} - \frac{33}{9} = \frac{8}{9}$$

LO: to subtract fractions

we do

Pink highlighter at the ready....here is the answer!

$a = d - 7$
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Use this information to complete the following calculation and find the value of e.

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A = 5

B = 2

C = 1

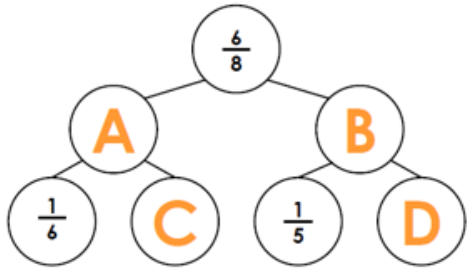
D = 12

E = 2

$$5\frac{1}{2} - 3\frac{1}{2} = 2\frac{5}{12}$$

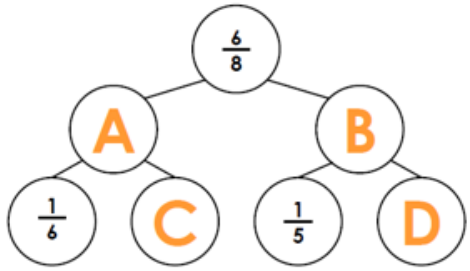
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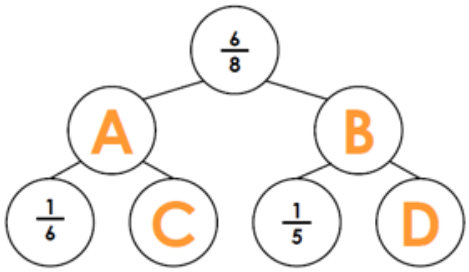
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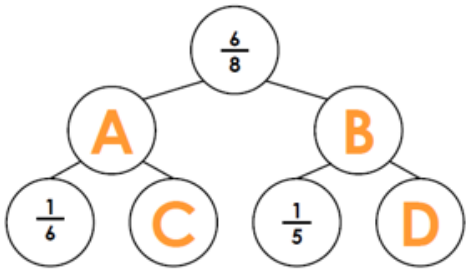
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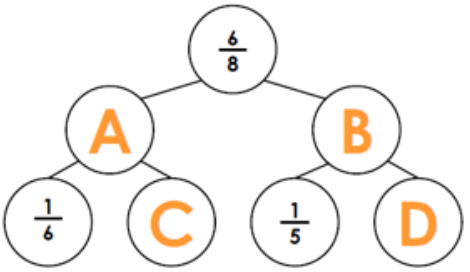
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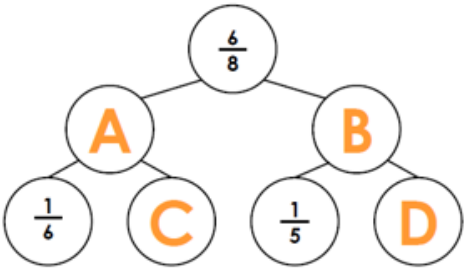
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Use this information to complete the following calculation and find the value of e.

$$a\frac{c}{b} - 3\frac{c}{d} = e\frac{a}{d}$$

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