Subtract mixed numbers

2+2=4 Fluency

GD

1) Match the calculation to the answer.

$4\frac{5}{8} - \frac{3}{5}$	$4\frac{1}{30}$
$4\frac{7}{10} - \frac{2}{3}$	$4\frac{32}{63}$
$4\frac{2}{7} - \frac{7}{9}$	$4\frac{1}{40}$
$4\frac{5}{6} - \frac{4}{15}$	$4\frac{17}{30}$

Subtract mixed numbers

2+2=4 Fluency

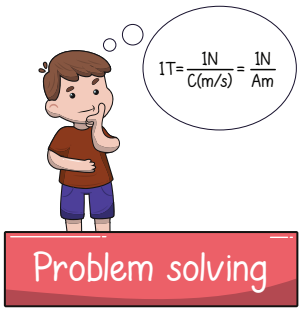
GD

2) Which of these calculations has the greatest answer?

a) $4\frac{2}{9} - \frac{10}{11}$

b) $3\frac{7}{8} - \frac{1}{5}$

Subtract mixed numbers



GD

3) Emily brings home three whole cakes and five sixths of another cake from a party to share with her family.

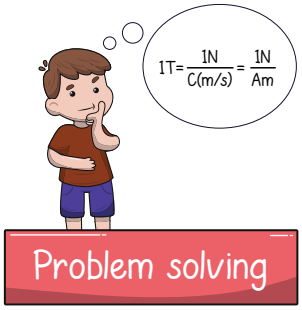
Her mum eats three fifths of one cake before her dad gets home.

Emily draws a picture to represent her problem and help her find the answer.

Has she drawn the picture correctly?

How much is left?

Subtract mixed numbers



GD

4) Sumayah is making orange squash for her birthday party.

She has made $4\frac{5}{12}$ litres of orange squash. Within half an hour, $\frac{2}{8}$ has been drunk.

What fraction of orange squash is leftover for the rest of the party?

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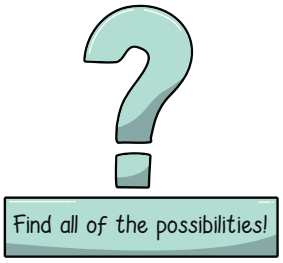
Subtract mixed numbers



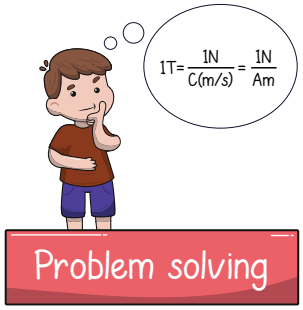
GD

5) There are lots of ways to complete this calculation.

Can you find five?

a) $3\frac{\square}{12} - \frac{1}{\square} = 3\frac{5}{12}$

Subtract mixed numbers



GD

6) Rayyan is thinking of two fractions.

He gives these clues to help us work out what his fractions are.

- One of Rayyan's fractions is a mixed number
- The mixed fraction contains 1 whole
- Both denominators are different 2-digit multiples of 8 under 50
- The difference between the fractions is more than $\frac{1}{2}$ and less than $\frac{2}{3}$

What are Rayyan's fractions?

Is there more than one possibility? Find at least 3.

Subtract mixed numbers

2+2=4 Fluency

GD

ANSWERS

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1) Match the calculation to the answer.

$4\frac{5}{8} - \frac{3}{5}$	$4\frac{1}{30}$
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ANSWERS

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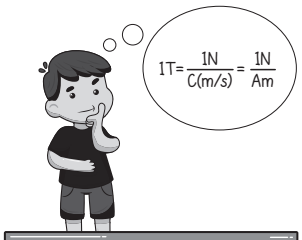
2) Which of these calculations has the greatest answer?

a) $4\frac{2}{9} - \frac{10}{11}$

b) $3\frac{7}{8} - \frac{1}{5}$

a) $3\frac{31}{99}$ b) $3\frac{27}{40}$; therefore b is the greater answer

Subtract mixed numbers



Problem solving

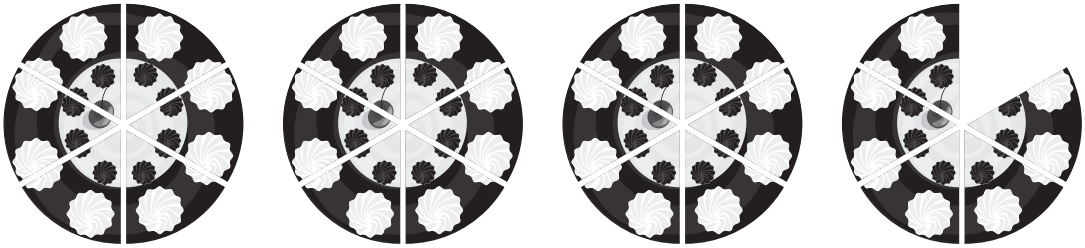
GD

ANSWERS

3) Emily brings home three whole cakes and five sixths of another cake from a party to share with her family.

Her mum eats three fifths of one cake before her dad gets home.

Emily draws a picture to represent her problem and help her find the answer.



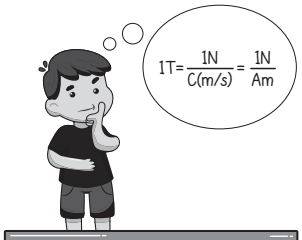
Has she drawn the picture correctly?

How much is left?

Emily's drawing is correct.

There is $3\frac{7}{30}$

Subtract mixed numbers



Problem solving

GD

ANSWERS

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She has made $4\frac{5}{12}$ litres of orange squash. Within half an hour, $\frac{2}{8}$ has been drunk.

What fraction of orange squash is leftover for the rest of the party?

$4\frac{10}{24} - \frac{6}{24} = 4\frac{4}{24}$ which simplifies to $4\frac{1}{6}$ litres.

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Subtract mixed numbers

Find all of the possibilities!

GD

ANSWERS

5) There are lots of ways to complete this calculation.

Can you find five?

a) $3\frac{\square}{12} - \frac{1}{\square} = 3\frac{5}{12}$

Answers may vary

Examples:

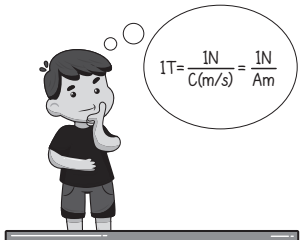
$3\frac{11}{12} - \frac{1}{2} = 3\frac{5}{12}$

$3\frac{9}{12} - \frac{1}{3} = 3\frac{5}{12}$

$3\frac{8}{12} - \frac{1}{4} = 3\frac{5}{12}$

$3\frac{7}{12} - \frac{1}{6} = 3\frac{5}{12}$

Subtract mixed numbers



Problem solving

GD

ANSWERS

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- The difference between the fractions is more than $\frac{1}{2}$ and less than $\frac{2}{3}$

What are Rayyan's fractions?

Is there more than one possibility? Find at least 3.

Answers may vary. Accept any two fractions where the mixed number has 1 whole, the difference is $\frac{7}{12}$ and the denominators are 16, 24, 32, 40 or 48.

Examples:

$1\frac{11}{24}$ $\frac{14}{16}$ $1\frac{9}{16}$ $\frac{47}{48}$ $1\frac{4}{32}$ $\frac{13}{24}$