Subtract 2 mixed numbers



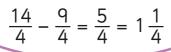
1 Amir and Alex are working out $3\frac{1}{2} - 2\frac{1}{4}$

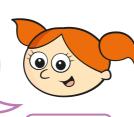


First subtract 2 from 3, then subtract $\frac{1}{4}$ from $\frac{1}{2}$ That leaves $1\frac{1}{4}$

Amir

Convert to an improper fraction first, $\frac{7}{2} - \frac{9}{4}$, then





Alex

Whose method do you prefer?



- 2 Use your preferred method to complete the subtractions.
 - a) $4\frac{4}{5} 2\frac{3}{10} = 2\frac{1}{2}$
- c) $16\frac{1}{2} 5\frac{1}{4} = \frac{1}{4}$
- **b)** $3\frac{5}{8} 1\frac{1}{4} = 2\frac{3}{8}$
- d) $10\frac{5}{6} 5\frac{5}{12} = 5\frac{5}{12}$

What do you notice about your answer to part d)?



3 Car A travels for $15\frac{1}{4}$ miles.



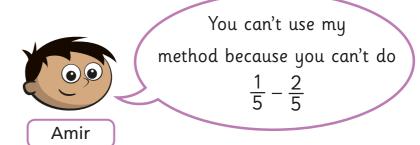


Car B travels for $21\frac{5}{12}$ miles.

How much further does Car B travel than Car A?

Car B travels $6\frac{1}{6}$ miles further than Car A.

Amir and Dora are working out $4\frac{1}{5} - 1\frac{2}{5}$



- a) Do you agree with Amir?
- I know that $4\frac{1}{5} = 3\frac{6}{5}$ Dora

How does this help you to work out the subtraction?

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

c) Complete the calculation.

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

Complete the subtractions.

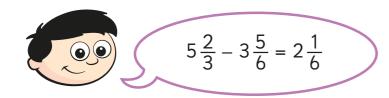
a)
$$4\frac{4}{5} - 2\frac{9}{10} = \frac{9}{10}$$

c)
$$5\frac{2}{7} - 2\frac{11}{14} = 2\frac{1}{2}$$

b)
$$3\frac{5}{8} - 1\frac{3}{4} = \boxed{\frac{7}{8}}$$

d)
$$2\frac{1}{6} - 1\frac{7}{18} = \frac{7}{9}$$

Dexter is subtracting fractions.



Explain the mistake that Dexter has made.

He has found the difference between the wholes
$$(5-3=2)$$
 and the difference between the tractions $(\frac{5}{2}-\frac{3}{3}=\frac{1}{6})$ rather than doing $5\frac{2}{3}-3\frac{5}{6}=4\frac{5}{3}-3\frac{5}{6}=1\frac{5}{6}$

Here are some number cards.

$$3\frac{1}{12}$$

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

$$2\frac{5}{24}$$

$$4\frac{5}{6}$$

a) Use two of the number cards to find the smallest difference.

b) Use two of the number cards to find the difference closest to 2

Complete the magic square.

The total of each column is $5\frac{7}{20}$

The total of each row is $5\frac{7}{20}$

1 1/2	1 <u>3</u>	2 4
2 3 10	1 7 20	1 7 10
11 20	2 3/5	12/5

9 A marathon is $26\frac{1}{5}$ miles.

Dexter has run $18\frac{1}{10}$ miles.

Eva has run $19\frac{3}{5}$ miles.

a) How much further has Eva run than Dexter?



b) How much further does Eva need to run to complete the marathon?



miles

