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

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

Alex:
Convert to an improper fraction first, $\frac{7}{2} - \frac{9}{4}$, then
$\frac{14}{4} - \frac{9}{4} = \frac{5}{4} = 1\frac{1}{4}$

Whose method do you prefer?

2 Use your preferred method to complete the subtractions.

a) $4\frac{4}{5} - 2\frac{3}{10} = \boxed{}$

c) $16\frac{1}{2} - 5\frac{1}{4} = \boxed{}$

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

d) $10\frac{5}{6} - 5\frac{5}{12} = \boxed{}$

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?

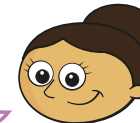**4** Amir and Dora are working out $4\frac{1}{5} - 1\frac{2}{5}$

Amir:
You can't use my method because you can't do $\frac{1}{5} - \frac{2}{5}$

a) Do you agree with Amir?

b)

Dora:
I know that $4\frac{1}{5} = 3\frac{6}{5}$

How does this help you to work out the subtraction?

c) Complete the calculation.

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

5 Complete the subtractions.

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

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

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

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

6 Dexter is subtracting fractions.

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

Explain the mistake that Dexter has made.

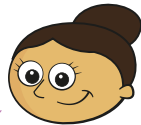**4** Amir and Dora are working out $4\frac{1}{5} - 1\frac{2}{5}$

> You can't use my method because you can't do $\frac{1}{5} - \frac{2}{5}$
>
> **Amir**

a) Do you agree with Amir?

b)

> I know that $4\frac{1}{5} = 3\frac{6}{5}$
>
> **Dora**

How does this help you to work out the subtraction?

c) Complete the calculation.

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

5 Complete the subtractions.

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

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

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

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

6 Dexter is subtracting fractions.

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

Explain the mistake that Dexter has made.

7 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

8 Complete the magic square.

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

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

$1\frac{1}{2}$	$1\frac{3}{5}$	
	$1\frac{7}{20}$	$1\frac{7}{10}$

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?