Name: .... Class: ....

Add and subtract fractions with unlike denominators: word problems

a. Anna is reading two novels that has 50 and 100 pages respectively.
She has already read $\frac{12}{50}$ pages of one of the novels and $\frac{71}{100}$ pages of the other novel. What fraction of both novels has she read in all? Simplify your answer if need be.

b. Mr John and his son went fishing. His son is very good at fishing. Mr John caught $\frac{7}{24}$ kg of fish and his son caught $\frac{11}{12}$ kg of fish. How many more grams of fish did Mr John's son catch than Mr. John?

mathskills4kids

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She has already read $\frac{12}{50}$ pages of one of the novels and $\frac{71}{100}$ pages of the other novel.
What fraction of both novels has she read in all? Simplify your answer if need be.

Let's write down the information given.

Fraction of the novel with 50 pages she has read = $\frac{12}{50}$.

Fraction of the novel with 100 pages she has read = $\frac{71}{100}$.

Therefore, fraction of both novels she has read = $\dfrac{12}{50} + \dfrac{71}{100}$

$$\dfrac{24 + 71}{100} = \dfrac{95}{100} = \dfrac{19}{20}$$

So, Anna has read $\frac{19}{20}$ pages of both novels in all.

b. Mr John and his son went fishing. His son is very good at fishing. Mr John caught $\frac{7}{24}$ kg of fish and his son caught $\frac{11}{12}$ kg of fish. How many more grams of fish did Mr John's son catch than Mr. John?

Let's write down the information given.

Amount of fish caught by Mr. John = $\frac{7}{24}$ kg.

Amount of fish caught by his son = $\frac{11}{12}$ kg.

So, amount of fish Mr John's son caught more than him = $\dfrac{11}{12} - \dfrac{7}{24}$

$$\dfrac{22 - 7}{24} = \dfrac{15}{24} \text{ kg} = \dfrac{5 \times 3}{8 \times 3} = \dfrac{5}{8} \text{ kg}$$

But we know that,

1kg = 1000g

So, $\dfrac{5}{8}$ kg $= (\dfrac{5}{8} \times 1{,}000)$g $= \dfrac{5{,}000}{8}$ g $= \dfrac{625 \times 8}{8}$ g $= 625$g

So, Mr John's son caught 625g more fish than Mr. John.