Adding and Subtracting Unlike Fractions

Write the equivalent fraction by finding the missing digits.

1. $\dfrac{2}{3} = \dfrac{\boxed{}}{12}$

$+\dfrac{1}{4} = \dfrac{\boxed{}}{12}$

$\rule{1cm}{0.4pt}$

$\dfrac{\boxed{}}{12}$

2. $\dfrac{4}{5} = \dfrac{8}{\boxed{}}$

$-\dfrac{1}{2} = \dfrac{5}{\boxed{}}$

$\rule{1cm}{0.4pt}$

$\dfrac{3}{\boxed{}}$

3. $\dfrac{2}{6} = \dfrac{\boxed{}}{\boxed{}}$

$+\dfrac{2}{5} = \dfrac{\boxed{}}{\boxed{}}$

$\rule{1cm}{0.4pt}$

$\dfrac{\boxed{}}{\boxed{}} = \dfrac{11}{15}$

Find the sum or difference. Write your answer in simplest form.

4. $\dfrac{1}{2}$
$+\dfrac{1}{8}$

5. $\dfrac{4}{5}$
$-\dfrac{2}{3}$

6. $\dfrac{2}{6}$
$+\dfrac{3}{10}$

7. $\dfrac{3}{4}$
$-\dfrac{3}{8}$

8. $\dfrac{2}{5}$
$+\dfrac{2}{4}$

Mixed Applications

9. Whit usually drives $\dfrac{5}{8}$ mile to work on the expressway. When the traffic is bad he takes another route that is $\dfrac{7}{8}$ mile long. How much shorter is his usual route?

_____

10. Sonja needs $\dfrac{1}{4}$ teaspoon of salt for her rolls, $\dfrac{1}{8}$ teaspoon of salt for her muffins, and $\dfrac{1}{2}$ teaspoon of salt for her bread. How many teaspoons of salt does she need in all?

_____

NUMBER SENSE

11. Jennifer needs $\dfrac{1}{8}$ yard of red ribbon, $\dfrac{1}{4}$ yard of blue ribbon, and $\dfrac{1}{2}$ yard of green ribbon. She estimates that she needs about $\dfrac{1}{2}$ yard of ribbon in all. Is she right?

How close to the actual answer is her estimate? _____

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Answer Key

1. 8, 3, 11

2. 10, 10, 10

3. 10, 30, 12, 30, 22, 30

4. $\frac{5}{8}$

5. $\frac{2}{15}$

6. $\frac{19}{30}$

7. $\frac{3}{8}$

8. $\frac{9}{10}$

9. $\frac{1}{4}$ mile

10. $\frac{7}{8}$ teaspoon

11. No; She needs $\frac{3}{8}$ yard more.

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