

Name: _____

Date: _____

Math 8 Section 2a Adding and Subtracting Fractions

1. Add or Subtract the following:

a) $\frac{2}{5} + \frac{3}{10} =$	b) $\frac{2}{3} + \frac{1}{6} =$	c) $\frac{8}{5} - \frac{10}{3} =$	d) $3\frac{1}{4} - 2\frac{5}{8} =$
e) $2\frac{2}{3} - 1\frac{5}{12} =$	f) $\frac{1}{3} + 2\frac{7}{8} =$	g) $\frac{3}{6} + \frac{1}{4} - \frac{5}{3} =$	h) $\frac{7}{4} + \frac{2}{3} - \frac{7}{2} =$
i) $2\frac{2}{3} - \frac{1}{4} + 1\frac{1}{3} =$	j) $4\frac{1}{3} - 2\frac{3}{5} + 3\frac{2}{3} =$	k) $3\frac{5}{6} - 3\frac{3}{12} + 2\frac{2}{3} =$	l) $3\frac{9}{25} - 2\frac{3}{20} - 1\frac{2}{15} =$

2. Evaluate the following equation by drawing area model:

a) $3\frac{1}{3} - \frac{9}{4} =$	b) $3\frac{1}{3} - \frac{9}{4} =$	c) $3\frac{1}{3} - \frac{9}{4} =$
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3. Nelson ran $3\frac{1}{3}$ laps around a track. Charlie ran $4\frac{1}{4}$ laps. How many laps did they run in total?
4. In a regular day, Tom spends $\frac{1}{3}$ of his day sleeping, $\frac{1}{6}$ of his day eating, $\frac{1}{8}$ of his day doing homework, $\frac{1}{12}$ of his day watching TV. The rest of the time is spent playing video games on his computer. How many hours does he spend on his computer?
5. One third of the students in Mr. X's class have black hair. One quarter of the students have blonde hair and one fifth of the students have brown hair. The rest of the students have red hair. What fraction of the students have red hair?
6. About $\frac{1}{2}$ of Canada is covered in forest, and about $\frac{1}{12}$ is covered in fresh water. What fraction of Canada is not covered in either forest or fresh water?
7. One third of all the land surface of the Earth used to be covered with trees. In the last century, two thirds of all forests have been cleared. What fraction of the Earth is now covered with trees?
8. King Arthur has a stable of horses and he plans to give them away to people in his kingdom. He gives half of them to his knights, one third to his nobles, one-twelfth to his peasants, one fifteenth to his wives, and two of his favorite horses to Merlin the wizard. Afterwards, he rode off with his horse. How many horses did King Arthur have at the beginning?