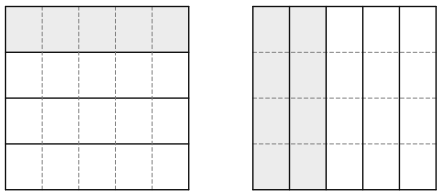
Grade 5 Unit 5 worksheet: Adding and subtracting fractions with unlike denominators

Name _____ Date _____ Period _____

1. Each square below is one whole. On the left square, the solid lines cut it into fourths. On the right square, the solid lines cut it into fifths. The dashed lines cut both squares into the same small cells.



(a) How many small cells are in each square? What fraction of a square is one cell?

(b) Write the shaded part of each square as a fraction. Then write it again, counted in cells.

(c) Add the two shaded parts.

2. Add or subtract. Write each answer in simplest form.

(a) $\frac{2}{5} + \frac{3}{10}$ (b) $\frac{5}{6} - \frac{1}{4}$ (c) $\frac{1}{3} + \frac{3}{8}$ (d) $\frac{7}{9} - \frac{1}{2}$

(e) $\frac{3}{4} + \frac{1}{6}$ (f) $\frac{4}{5} - \frac{2}{3}$ (g) $\frac{5}{12} + \frac{1}{4}$ (h) $\frac{9}{10} - \frac{1}{6}$

3. At the market, Priya buys $\frac{1}{4}$ pound of grapes and $\frac{7}{9}$ pound of cherries. How many pounds of fruit is that in all? Write the answer as a mixed number.

Free sample from math.wiki for classroom use. Do not post. math.wiki

4. (a) Ben writes $\frac{3}{8} + \frac{1}{2} = \frac{4}{10}$. What did he do wrong? Find the correct sum. Then find how much too small Ben's answer is.

(b) Leah writes $\frac{7}{8} - \frac{1}{3} = \frac{7}{24} - \frac{1}{24} = \frac{6}{24}$. What did she do wrong? Find the correct difference.

5. Jack makes trail mix with $\frac{2}{3}$ cup of peanuts, $\frac{5}{6}$ cup of raisins and $\frac{3}{8}$ cup of cereal. How many cups of trail mix is that? Write the answer as a mixed number in simplest form.

6. Find the whole number that goes in each box.

(a) $\frac{1}{6} + \frac{\square}{4} = \frac{11}{12}$

(b) $\frac{\square}{5} - \frac{1}{3} = \frac{7}{15}$

Free sample from math.wiki for classroom use. Do not post. math.wiki