

Pre-Algebra
Worksheet 4: Fractions II

1. Calculate the following (and express your answers in their lowest terms):

(a) $\frac{4}{15} + \frac{2}{15}$

(b) $\frac{1}{17} + \frac{7}{17} + \frac{9}{17}$

(c) $\frac{3}{19} - \frac{2}{19}$

(d) $\frac{7}{20} - \frac{2}{20}$

(e) $\frac{1}{41} + \frac{5}{41} + \frac{16}{41} - \frac{14}{41}$

(f) $\frac{1}{99} + \frac{5}{99} + \frac{7}{99} + \frac{2}{99}$

(g) $\frac{14}{17} - \frac{7}{17}$

2. Calculate the following (and express your answers in their lowest terms):

(a) $\frac{4}{15} + \frac{3}{20}$

(b) $\frac{3}{5} - \frac{7}{9} + \frac{4}{15}$

(c) $\frac{2}{3} - \frac{1}{6}$

(d) $\frac{5}{16} + \frac{3}{16}$

(e) $\frac{1}{4} + \frac{1}{8}$

(f) $1 - \frac{7}{8}$

(g) $1 - \frac{1}{16}$

3. Calculate the following (and express your answers in their lowest terms):

(a) $1\frac{1}{2} + \frac{3}{4}$

(b) $2\frac{3}{7} + 5\frac{1}{2}$

(c) $4\frac{2}{3} - 3\frac{1}{2}$

(d) $9\frac{16}{17} - 2$

(e) $4\frac{3}{4} + 8\frac{2}{3}$

(f) $7\frac{1}{2} - 2\frac{2}{3}$

(g) $5\frac{2}{3} + 3\frac{1}{2} - 4\frac{1}{4}$

4. Solve the following equations:

(a) $x + \frac{1}{4} = \frac{3}{4}$

(b) $x - \frac{1}{2} = \frac{1}{3}$

(c) $4 - x = 2\frac{2}{3}$

(d) $x + 7\frac{1}{7} = \frac{4}{7}$

(e) $2 + x = 3\frac{3}{4}$

(f) $x + \frac{1}{2} = \frac{5}{17}$

(g) $x - 2 = \frac{4}{13}$

5. Thomas has a pizza party at work and brings home some of the leftover pizza for his kids. The pizzas have 8 slices. He brings home 3 slices of pepperoni pizza and four of plain pizza.

(a) What fraction of a pepperoni pizza does he have?

(b) What fraction of a plain pizza does he have?

(c) The first kid takes a slice of pepperoni and half of the plain pizza. The second kid takes two pepperoni slices. The third kid gets the rest. What fraction of the pizza that Thomas brought home does the third kid get?