Gillespie
Course 1: Ch2 Test
Fraction Operations

Name _____

Directions: When working each of the following questions, be sure to show all work. Your answer can be an improper fraction.

1) $\frac{1}{3} + \frac{1}{2}$

   a) $\frac{4}{4}$

   b) $\frac{5}{6}$

   c) $\frac{6}{8}$

   d) $\frac{9}{8}$

2) $3\frac{1}{6} + 4\frac{2}{6}$

   a) $7\frac{1}{6}$

   b) $\frac{3}{6}$

   c) $7\frac{1}{2}$

   d) $7\frac{1}{5}$

3) Lily is painting her kitchen. She has $5\frac{2}{4}$ *gallons* of paint. She needs $\frac{1}{4}$ *gallon* for the trim and $5\frac{1}{2}$ gallons for the walls. Does she have enough paint to paint her kitchen?

a) *No, Lily needs* $5\frac{3}{4}$ *gallons of paint, and she has* $5\frac{2}{4}$ *gallons.*

b) *No, Lily needs* $5\frac{5}{12}$ *gallons of paint, and she has* $5\frac{2}{4}$ *gallons.*

c) *Yes, Lily needs* $5\frac{3}{4}$ *gallons of paint, and she has* $5\frac{2}{4}$ *gallons.*

d) *Yes, Lily needs* $5\frac{7}{6}$ *gallons of paint, and she has* $5\frac{2}{4}$ *gallons.*

4) $11\frac{2}{3} - 4\frac{1}{6}$

a) $7\frac{1}{2}$

b) $\frac{1}{2}$

c) $7\frac{1}{6}$

d) $7\frac{1}{12}$

5) $6\frac{5}{8} - \frac{1}{2}$

a) $\frac{5}{8}$

b) $6\frac{1}{2}$

c) $6\frac{9}{16}$

d) $6\frac{1}{8}$

6) Jared has a plastic pipe $21\frac{6}{8}$ feet long. He used $7\frac{2}{3}$ feet for plumbing. Does he have enough plastic tubing for another job, which requires $12\frac{1}{2}$ feet of pipe?

a) $Yes, Jared\ needs\ 12\frac{1}{2}$ feet of pipe, $and\ he\ has\ 14\frac{1}{12}\ feet.$

b) $Yes, Jared\ needs\ 12\frac{1}{2}$ feet of pipe, $and\ he\ has\ 16\frac{1}{12}\ feet.$

c) $No, Jared\ needs\ 12\frac{1}{2}$ feet of pipe, $and\ he\ has\ 14\frac{2}{24}\ feet.$

d) $No, Jared\ needs\ 12\frac{1}{2}$ feet of pipe, $and\ he\ has\ 16\frac{2}{24}\ feet.$

7) $\frac{3}{4} * \frac{5}{6}$

a) $\frac{720}{30}$

b) $\frac{20}{50}$

c) $\frac{5}{8}$

d) $\frac{1}{2}$

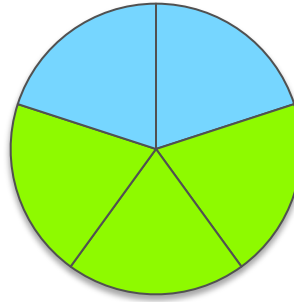**8)** $2\frac{1}{4} * 3\frac{1}{3}$

a) $\frac{1}{2}$

b) $\frac{30}{3}$

c) $\frac{15}{12}$

d) $\frac{15}{2}$

9) A bag contains 20 pieces of candy. If $\frac{3}{5}$ of the pieces are green, how many pieces are not green?

    a) $8\ pieces\ are\ not\ green$

    b) $12\ pieces\ are\ not\ green$

    c) $40\ pieces\ are\ not\ green$

    d) $60\ pieces\ are\ not\ green$

10) $\frac{4}{6} \div \frac{10}{15}$

    a) 1

    b) $\frac{45}{60}$

    c) $\frac{60}{90}$

    d) $\frac{20}{33}$

11) $\frac{16}{2} \div 1\frac{1}{2}$

    a) $\frac{16}{2}$

    b) $\frac{6}{1}$

    c) $\frac{16}{3}$

    d) 8

12) $\dfrac{\frac{1}{5}}{\frac{1}{3}}$

    a) $\dfrac{5}{3}$

    b) $\dfrac{3}{5}$

    c) $\dfrac{3}{15}$

    d) $\dfrac{3}{10}$

13) $\dfrac{\frac{1}{4}}{\frac{3}{5}}$

    a) $\dfrac{5}{12}$

    b) $\dfrac{12}{5}$

    c) $\dfrac{1}{6}$

    d) $\dfrac{1}{2}$

14) $\dfrac{\frac{3}{6}}{\frac{3}{5}}$

    a) $\dfrac{5}{6}$

    b) $\dfrac{18}{15}$

    c) $\dfrac{3}{15}$

    d) $\dfrac{6}{18}$

15) Each dinner at the Shady Tree Truck Stop is served with $\frac{1}{4}$ cup of corn. If there are 4 cups of corn, how many dinners could be served?

a) 12

b) 4

c) $\frac{1}{2}$

d) 16