

## 5.NF.A.1 Determining Like and Unlike Fractions

5.NF.A.1: Add and subtract fractions with unlike denominators.

1. Write a like fraction for each.

a.  $\frac{1}{8}$

b.  $\frac{8}{14}$

c.  $\frac{13}{17}$

d.  $\frac{11}{32}$

e.  $\frac{7}{22}$

f.  $\frac{2}{3}$

g.  $\frac{5}{13}$

h.  $\frac{9}{23}$

Answers:

a.

b.

c.

d.

e.

f.

g.

h.

2. Which fraction is not a like fraction to the other two?

a.  $\frac{2}{11}, \frac{7}{13}, \frac{9}{11}$

d.  $\frac{1}{50}, \frac{3}{50}, \frac{1}{100}$

b.  $\frac{11}{32}, \frac{6}{16}, \frac{15}{16}$

e.  $\frac{2}{5}, \frac{5}{6}, \frac{2}{6}$

c.  $\frac{8}{13}, \frac{3}{17}, \frac{12}{17}$

f.  $\frac{11}{12}, \frac{5}{12}, \frac{3}{15}$

Answers:

a.

d.

b.

e.

c.

f.

3. Explain how you can convert  $\frac{1}{3}$  and  $\frac{1}{4}$  to like fractions that are equivalent to their original value. Does it help in subtracting  $\frac{1}{4}$  from  $\frac{1}{3}$ ? How? What is the value of  $\frac{1}{3} - \frac{1}{4}$ ?

Answer:

4. What is least common denominator? What is the least common denominator of  $\frac{1}{5}$  and  $\frac{1}{6}$ ? How does finding the least common denominator help in finding the sum or the difference of two, unlike fractions? Find the difference between the two fractions mentioned above.

Answer:

5. Which pair of fractions are unlike fractions?

A.  $\frac{1}{8}, \frac{2}{16}$

B.  $\frac{3}{5}, \frac{1}{5}$

C.  $\frac{5}{11}, \frac{9}{11}$

D.  $\frac{11}{23}, \frac{12}{23}$

Answer:

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### Answer Key

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h.  $\frac{9}{23}$

Answers:

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

b.  $\frac{6}{14}$

c.  $\frac{8}{17}$

d.  $\frac{9}{32}$

e.  $\frac{11}{22}$

f.  $\frac{1}{3}$

g.  $\frac{8}{13}$

h.  $\frac{15}{23}$

2. Which fraction is not a like fraction to the other two?

a.  $\frac{2}{11}, \frac{7}{13}, \frac{9}{11}$

d.  $\frac{1}{50}, \frac{3}{50}, \frac{1}{100}$

b.  $\frac{11}{32}, \frac{6}{16}, \frac{15}{16}$

e.  $\frac{2}{5}, \frac{5}{6}, \frac{2}{6}$

c.  $\frac{8}{13}, \frac{3}{17}, \frac{12}{17}$

f.  $\frac{11}{12}, \frac{5}{12}, \frac{3}{15}$

Answers:

a.  $\frac{7}{13}$

d.  $\frac{1}{100}$

b.  $\frac{11}{32}$

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

c.  $\frac{8}{13}$

f.  $\frac{3}{15}$

3. Explain how you can convert  $\frac{1}{3}$  and  $\frac{1}{4}$  to like fractions that are equivalent to their original value. Does it help in subtracting  $\frac{1}{4}$  from  $\frac{1}{3}$ ? How? What is the value of  $\frac{1}{3} - \frac{1}{4}$ ?

Answer:

Get the LCD of the two fractions which in this case is 12, then convert each fraction into equivalent fraction where 12 is the denominator.

$$\frac{1}{3} - \frac{1}{4} = \frac{4}{12} - \frac{3}{12} = \frac{1}{12}$$

4. What is least common denominator? What is the least common denominator of  $\frac{1}{5}$  and  $\frac{1}{6}$ ? How does finding the least common denominator help in finding the sum or the difference of two, unlike fractions? Find the difference between the two fractions mentioned above.

Answer:

LCD (least/lowest common denominator) is the least common multiple of the denominators of two or more fractions. The LCD of  $\frac{1}{5}$  and  $\frac{1}{6}$  is 30. It helps in converting unlike fractions to like fractions which makes it easier to add or subtract fractions. The difference is  $\frac{1}{30}$ .

5. Which pair of fractions are unlike fractions?

A.  $\frac{1}{8}, \frac{2}{16}$

B.  $\frac{3}{5}, \frac{1}{5}$

C.  $\frac{5}{11}, \frac{9}{11}$

D.  $\frac{11}{23}, \frac{12}{23}$

Answer:

A.  $\frac{1}{8}, \frac{2}{16}$