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5.NF.A.1 Understanding Like and Unlike Fractions

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

1. Write "Like" if the pair of fractions are like fractions, otherwise, write "Unlike."

a. $\frac{1}{4}, \frac{3}{4}$ b. $\frac{4}{9}, \frac{7}{9}$ c. $\frac{6}{9}, \frac{2}{6}$ d. $\frac{7}{11}, \frac{7}{12}$

e. $\frac{3}{7}, \frac{3}{8}$ f. $\frac{2}{4}, \frac{1}{2}$ g. $\frac{12}{15}, \frac{5}{15}$ h. $\frac{5}{9}, \frac{3}{5}$

Answers:

a. b. c. d.

e. f. g. h.

2. Write "True" if the statement is correct, and write "False" if it is not.

a. For two fractions to be termed "Like" fractions, their numerators must be the same.
b. For two fractions to be termed "Like" fractions, either their numerators or their denominators must be the same.
c. For two fractions to be termed "Like" fractions, their denominators must be the same.

Solution:

a.

b.

c.

3. Convert each fraction on the left to a like fraction of the fraction on the right.

a. $\frac{1}{3}, \frac{4}{9}$ d. $\frac{5}{6}, \frac{2}{12}$

b. $\frac{2}{4}, \frac{6}{20}$ e. $\frac{2}{10}, \frac{3}{30}$

c. $\frac{4}{8}, \frac{12}{32}$ f. $\frac{6}{14}, \frac{5}{7}$

Answers:

a. $\frac{3}{9}$ d.

b. e.

c. f.

4. Find the value of the expression $\frac{1}{2} + \frac{1}{4}$. To find the value of the expression, convert $\frac{1}{2}$ to a like fraction of $\frac{1}{4}$. Does it help?

Answer:

5. Which pair of fractions are like fractions?

A. $\frac{3}{5}, \frac{1}{4}$ B. $\frac{5}{7}, \frac{5}{9}$ C. $\frac{4}{12}, \frac{1}{3}$ D. $\frac{3}{9}, \frac{6}{9}$

Answer:

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Answer Key

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

1. Write "Like" if the pair of fractions are like fractions, otherwise, write "Unlike."

a. $\frac{1}{4}, \frac{3}{4}$ b. $\frac{4}{9}, \frac{7}{9}$ c. $\frac{6}{9}, \frac{2}{6}$ d. $\frac{7}{11}, \frac{7}{12}$

e. $\frac{3}{7}, \frac{3}{8}$ f. $\frac{2}{4}, \frac{1}{2}$ g. $\frac{12}{15}, \frac{5}{15}$ h. $\frac{5}{9}, \frac{3}{5}$

Answers:

a. Like b. Like c. Unlike d. Unlike

e. Unlike f. Unlike g. Like h. Unlike

2. Write "True" if the statement is correct, and write "False" if it is not.

a. For two fractions to be termed "Like" fractions, their numerators must be the same.

b. For two fractions to be termed "Like" fractions, either their numerators or their denominators must be the same.

c. For two fractions to be termed "Like" fractions, their denominators must be the same.

Solution:

a. False

b. False

c. True

3. Convert each fraction on the left to a like fraction of the fraction on the right.

a. $\frac{1}{3}, \frac{4}{9}$

b. $\frac{2}{4}, \frac{6}{20}$

c. $\frac{4}{8}, \frac{12}{32}$

d. $\frac{5}{6}, \frac{2}{12}$

e. $\frac{2}{10}, \frac{3}{30}$

f. $\frac{6}{14}, \frac{5}{7}$

Answers:

a. $\frac{3}{9}$

b. $\frac{10}{20}$

c. $\frac{16}{32}$

d. $\frac{10}{12}$

e. $\frac{6}{30}$

f. $\frac{3}{7}$

4. Find the value of the expression $\frac{1}{2} + \frac{1}{4}$. To find the value of the expression, convert $\frac{1}{2}$ to a like fraction of $\frac{1}{4}$. Does it help?

Answer:

$\frac{1}{2} + \frac{1}{4} = \frac{2}{4} + \frac{1}{4} = \frac{3}{4}$; Yes, it helps, because it is easier to add like fractions – we only need to add the numerators and copy the denominators.

5. Which pair of fractions are like fractions?

A. $\frac{3}{5}, \frac{1}{4}$ B. $\frac{5}{7}, \frac{5}{9}$ C. $\frac{4}{12}, \frac{1}{3}$ D. $\frac{3}{9}, \frac{6}{9}$

Answer:

D. $\frac{3}{9}, \frac{6}{9}$