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5.NF.A.2 Writing and Determining Equivalent Fractions

5.NF.A.2: Solve word problems involving addition and subtraction of fractions.

1. Write two equivalent fractions for each of the following.

a. $\frac{3}{15}$ b. $\frac{8}{16}$ c. $\frac{8}{5}$ d. $\frac{36}{48}$

e. $\frac{8}{40}$ f. $\frac{25}{35}$ g. $\frac{14}{16}$ h. $\frac{2}{3}$

Answers:

a. b. c. d.

e. f. g. h.

2. Which fraction is not equivalent to the other two?

a. $\frac{2}{5}, \frac{4}{10}, \frac{9}{15}$ b. $\frac{2}{8}, \frac{4}{20}, \frac{5}{25}$ c. $\frac{3}{6}, \frac{1}{3}, \frac{6}{18}$

d. $\frac{1}{6}, \frac{60}{100}, \frac{3}{5}$ e. $\frac{2}{7}, \frac{2}{14}, \frac{7}{49}$ f. $\frac{4}{8}, \frac{9}{6}, \frac{6}{4}$

Answers:

a. b. c.

d e. f.

3. In a Mathematics test, Kerby answered 12 questions correctly out of 15 questions. In his Science test, he scored 6 out of 10. Are his Mathematics score and Science score equivalent or not equivalent?

Answer:

4. Use the table to answer the questions.

a. What fraction of all the juices are the mango juices? Write an equivalent fraction.
b. What is the fraction of the strawberry juices? Write an equivalent fraction.
c. If there are only 10 fruit juices, how many lemon juices will be there if their fractions do not change?

Fruit Juice Flavors

Flavor	Number
Mango	3
Strawberry	4
Orange	7
Lemon	6

Answers:

a. b. c.

5. Which pair of fractions are not equivalent fractions?

A. $\frac{4}{14}, \frac{2}{7}$ B. $\frac{3}{8}, \frac{6}{16}$ C. $\frac{1}{4}, \frac{4}{12}$ D. $\frac{5}{6}, \frac{10}{12}$

Answer:

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Answer Key

5.NF.A.2: Solve word problems involving addition and subtraction of fractions.

1. Write two equivalent fractions for each of the following.

a. $\frac{3}{15}$ b. $\frac{8}{16}$ c. $\frac{8}{5}$ d. $\frac{36}{48}$

e. $\frac{8}{40}$ f. $\frac{25}{35}$ g. $\frac{14}{16}$ h. $\frac{2}{3}$

Answers:

a. $\frac{1}{5}, \frac{4}{20}$ b. $\frac{1}{2}, \frac{2}{4}$ c. $\frac{16}{10}, \frac{24}{15}$ d. $\frac{3}{4}, \frac{9}{12}$

e. $\frac{1}{5}, \frac{5}{25}$ f. $\frac{5}{7}, \frac{10}{14}$ g. $\frac{7}{8}, \frac{21}{24}$ h. $\frac{4}{6}, \frac{6}{9}$

2. Which fraction is not equivalent to the other two?

a. $\frac{2}{5}, \frac{4}{10}, \frac{9}{15}$ b. $\frac{2}{8}, \frac{4}{20}, \frac{5}{25}$ c. $\frac{3}{6}, \frac{1}{3}, \frac{6}{18}$

d. $\frac{1}{6}, \frac{60}{100}, \frac{3}{5}$ e. $\frac{2}{7}, \frac{2}{14}, \frac{7}{49}$ f. $\frac{4}{8}, \frac{9}{6}, \frac{6}{4}$

Answers:

a. $\frac{9}{15}$ b. $\frac{2}{8}$ c. $\frac{3}{6}$

d $\frac{1}{6}$ e. $\frac{2}{7}$ f. $\frac{4}{8}$

3. In a Mathematics test, Kerby answered 12 questions correctly out of 15 questions. In his Science test, he scored 6 out of 10. Are his Mathematics score and Science score equivalent or not equivalent?

Answer:
No.

4. Use the table to answer the questions.

a. What fraction of all the juices are the mango juices? Write an equivalent fraction.
b. What is the fraction of the strawberry juices? Write an equivalent fraction.
c. If there are only 10 fruit juices, how many lemon juices will be there if their fractions do not change?

Fruit Juice Flavors

Flavor	Number
Mango	3
Strawberry	4
Orange	7
Lemon	6

Answers:

a. $\frac{3}{20}; \frac{6}{40}$ b. $\frac{4}{20}; \frac{1}{5}$ c. 3

5. Which pair of fractions are not equivalent fractions?

A. $\frac{4}{14}, \frac{2}{7}$ B. $\frac{3}{8}, \frac{6}{16}$ C. $\frac{1}{4}, \frac{4}{12}$ D. $\frac{5}{6}, \frac{10}{12}$

Answer:
C. $\frac{1}{4}, \frac{4}{12}$