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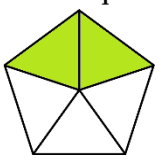
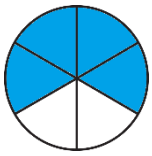
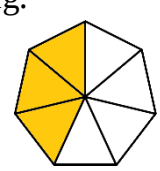
5.NF.A.2 Understanding Equivalent Fractions with Models

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

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

a. 

b. 

c. 

d. $\frac{5}{6}$

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

f. $\frac{3}{4}$

g. $\frac{7}{8}$

h. $\frac{4}{8}$

Answers:

a. b. c. d.

e. f. g. h.

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

a. $\frac{3}{15}, \frac{2}{8}, \frac{1}{5}$

b. $\frac{1}{3}, \frac{3}{6}, \frac{15}{30}$

c. $\frac{2}{8}, \frac{2}{6}, \frac{6}{18}$

d. $\frac{2}{3}, \frac{8}{12}, \frac{5}{8}$

e. $\frac{2}{3}, \frac{80}{100}, \frac{60}{90}$

f. $\frac{6}{14}, \frac{3}{7}, \frac{12}{15}$

Answers:

a. b. c.

d e. f.

3. Which of these does not make a pair of equivalent fractions?

A. $\frac{3}{5}, \frac{6}{10}$ B. $\frac{3}{5}, \frac{4}{20}$ C. $\frac{1}{4}, \frac{3}{12}$ D. $\frac{5}{6}, \frac{15}{18}$

Answer:

4. Use the table to answer the questions.

a. What fraction of Ben's toys are balls? Write an equivalent fraction.
b. What fraction are the toy blocks? Write an equivalent fraction.
c. If his toy robots and balls are given away, what fraction are toy blocks now? Is this fraction the same in problem b?

Toys in Ben's Room

Toy	Number
Robot	4
Ball	2
Block	3
Baseball Bat	1
Car	8

Answers:

a. b. c.

5. Which pair of fractions are equivalent fractions?

A. $\frac{3}{9}, \frac{5}{15}$ B. $\frac{2}{4}, \frac{6}{8}$ C. $\frac{2}{6}, \frac{6}{12}$ D. $\frac{4}{9}, \frac{8}{27}$

Answer:

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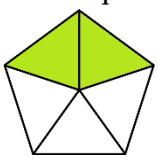
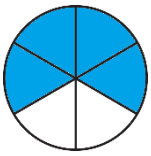
5.NF.A.2 Understanding Equivalent Fractions with Models

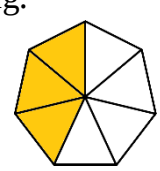
Answer Key

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

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

a. 

b. 

c. 

d. $\frac{5}{6}$

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

f. $\frac{3}{4}$

g. $\frac{7}{8}$

h. $\frac{4}{8}$

Answers:

a. $\frac{4}{10}, \frac{6}{15}$

b. $\frac{2}{3}, \frac{6}{9}$

c. $\frac{6}{14}, \frac{9}{21}$

d. $\frac{10}{12}, \frac{15}{18}$

e. $\frac{2}{16}, \frac{3}{24}$

f. $\frac{6}{8}, \frac{9}{12}$

g. $\frac{14}{16}, \frac{21}{24}$

h. $\frac{2}{4}, \frac{1}{2}$

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

a. $\frac{3}{15}, \frac{2}{8}, \frac{1}{5}$

b. $\frac{1}{3}, \frac{3}{6}, \frac{15}{30}$

c. $\frac{2}{8}, \frac{2}{6}, \frac{6}{18}$

d. $\frac{2}{3}, \frac{8}{12}, \frac{5}{8}$

e. $\frac{2}{3}, \frac{80}{100}, \frac{60}{90}$

f. $\frac{6}{14}, \frac{3}{7}, \frac{12}{15}$

Answers:

a. $\frac{2}{8}$

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

c. $\frac{2}{8}$

d $\frac{5}{8}$

e. $\frac{80}{100}$

f. $\frac{12}{15}$

3. Which of these does not make a pair of equivalent fractions?

A. $\frac{3}{5}, \frac{6}{10}$

B. $\frac{3}{5}, \frac{4}{20}$

C. $\frac{1}{4}, \frac{3}{12}$

D. $\frac{5}{6}, \frac{15}{18}$

Answer:

B. $\frac{3}{5}, \frac{4}{20}$

4. Use the table to answer the questions.

a. What fraction of Ben's toys are balls? Write an equivalent fraction.

b. What fraction are the toy blocks? Write an equivalent fraction.

c. If his toy robots and balls are given away, what fraction are toy blocks now? Is this fraction the same in problem b?

Toys in Ben's Room

Toy	Number
Robot	4
Ball	2
Block	3
Baseball Bat	1
Car	8

Answers:

a. $\frac{2}{18}; \frac{1}{9}$

b. $\frac{3}{18}; \frac{1}{6}$

c. $\frac{3}{12}$; No

5. Which pair of fractions are equivalent fractions?

A. $\frac{3}{9}, \frac{5}{15}$

B. $\frac{2}{4}, \frac{6}{8}$

C. $\frac{2}{6}, \frac{6}{12}$

D. $\frac{4}{9}, \frac{8}{27}$

Answer:

A. $\frac{3}{9}, \frac{5}{15}$