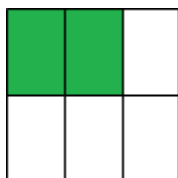


4.NF.A.1 Equivalent Fractions Using Visual Models

4.NF.A.1: Explain why a fraction a/b is equivalent to a fraction $(n \times a)/(n \times b)$

1. Write two equivalent fractions for each model.

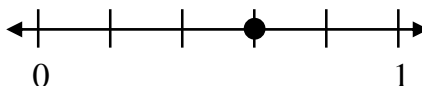
a.



b.



c.



Solution:

a.

b.

c.

2. Write an equivalent fraction for each of the following. Also, write the fraction in its simplest form.

a. $\frac{4}{6}$

b. $\frac{9}{15}$

c. $\frac{4}{16}$

d. $\frac{3}{12}$

e. $\frac{18}{45}$

f. $\frac{8}{24}$

g. $\frac{6}{18}$

h. $\frac{4}{20}$

Solution:

a. _____ e. _____

b. _____ f. _____

c. _____ g. _____

d. _____ h. _____

3. Which of the two fractions are equivalent?

a.

$\frac{1}{4}, \frac{8}{12}$

b.

$\frac{1}{3}, \frac{8}{28}$

c.

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

d.

$\frac{2}{3}, \frac{4}{9}$

Solution:

4. Are the following fractions in the simplest form? If not, write in the simplest form

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

b. $\frac{7}{21}$

c. $\frac{6}{9}$

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

Solution:

a. _____

b. _____

c. _____

d. _____

5. Use the table to answer the questions.

- a. What fraction of Mandy's ball is blue? Write in simplest form.
b. What fraction of Mandy's ball is green? Write in simplest form.

Mandy's Ball	
Color	Number
Blue	10
Green	8
Yellow	6

Solution:

a.

b.

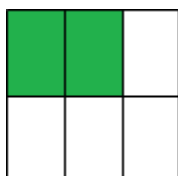
4.NF.A.1 Equivalent Fractions Using Visual Models

Answer Key

4.NF.A.1: Explain why a fraction a/b is equivalent to a fraction $(n \times a)/(n \times b)$

1. Write two equivalent fractions for each model.

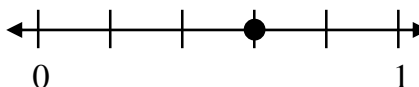
a.



b.



c.



Solution:

a. $\frac{1}{3} ; \frac{3}{9}$
 b. $\frac{1}{2} ; \frac{6}{12}$
 c. $\frac{6}{10} ; \frac{9}{15}$

2. Write an equivalent fraction for each of the following. Also, write the fraction in its simplest form.

a. $\frac{4}{6}$

b. $\frac{9}{15}$

c. $\frac{4}{16}$

d. $\frac{3}{12}$

e. $\frac{18}{45}$

f. $\frac{8}{24}$

g. $\frac{6}{18}$

h. $\frac{4}{20}$

Solution:

a. $\frac{2}{3}$ e. $\frac{2}{5}$
 b. $\frac{3}{5}$ f. $\frac{1}{3}$
 c. $\frac{1}{4}$ g. $\frac{1}{3}$
 d. $\frac{1}{4}$ h. $\frac{1}{5}$

3. Which of the two fractions are equivalent?

a. $\frac{1}{4} , \frac{8}{12}$

b. $\frac{1}{3} , \frac{8}{28}$

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

d. $\frac{2}{3} , \frac{4}{9}$

C

4. Are the following fractions in the simplest form? If not, write in the simplest form

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

b. $\frac{7}{21}$

c. $\frac{6}{9}$

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

Solution:

a. Yes
 b. No, 1/3
 c. No, 2/3
 d. No, 4/5

5. Use the table to answer the questions.

- a. What fraction of Mandy's ball is blue? Write in simplest form.
 b. What fraction of Mandy's ball is green? Write in simplest form

Mandy's Ball	
Color	Number
Blue	10
Green	8
Yellow	6

a. $\frac{5}{12}$

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