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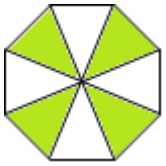
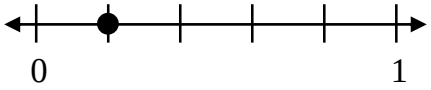
4.NF.A.1 Equivalent Fractions

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

1. Write two equivalents fraction each model.

a. 

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

c. 

Solution:

a. _____

b. _____

c. _____

2. Write an equivalent fraction for each of the following.

a. $\frac{1}{3}$ b. $\frac{11}{13}$ c. $\frac{6}{9}$ d. $\frac{8}{12}$

e. $\frac{3}{4}$ f. $\frac{3}{7}$ g. $\frac{1}{9}$ h. $\frac{5}{5}$

Solution:

a._____ e._____

b._____ f._____

c._____ g._____

d._____ h._____

3. Janice says that all of these fractions given below are equivalent. Is she right?

a. $\frac{1}{2}$, $\frac{8}{12}$

b. $\frac{1}{4}$, $\frac{4}{12}$

c. $\frac{1}{3}$, $\frac{7}{21}$

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

Solution:

a. _____

b. _____

c. _____

d. _____

4. True or False? If one of the numerator or denominator is a number that can only be divided by 1, fraction can be simplified.

Solution:

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

a. $\frac{4}{6}$ b. $\frac{2}{15}$ c. $\frac{3}{9}$ d. $\frac{6}{10}$

e. $\frac{1}{3}$ f. $\frac{3}{7}$ g. $\frac{1}{6}$ h. $\frac{5}{15}$

Solution:

a. _____ e. _____

b. _____ f. _____

c. _____ g. _____

d. _____ h. _____

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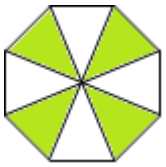
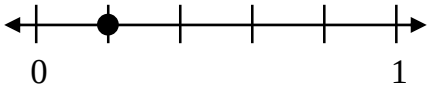
Answer Key

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

1. Write two equivalents fraction each model.

a. 

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

c. 

Solution:
a. $\frac{1}{2}$; $\frac{8}{16}$
b. $\frac{4}{6}$; $\frac{6}{9}$
c. $\frac{2}{10}$; $\frac{3}{15}$

2. Write an equivalent fraction for each of the following.

a. $\frac{1}{3}$ b. $\frac{11}{13}$ c. $\frac{6}{9}$ d. $\frac{8}{12}$

e. $\frac{3}{4}$ f. $\frac{3}{7}$ g. $\frac{1}{9}$ h. $\frac{5}{5}$

Solution:
a. $\frac{2}{6}$ e. $\frac{6}{8}$
b. $\frac{22}{26}$ f. $\frac{6}{14}$
c. $\frac{2}{3}$ g. $\frac{2}{18}$
d. $\frac{2}{3}$ h. $\frac{2}{2}$

3. Janice says that all of these fractions given below are equivalent. Is she right?

a. $\frac{1}{2}$, $\frac{8}{12}$ c. $\frac{1}{3}$, $\frac{7}{21}$

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

Solution:
a. False
b. False
c. True
d. True

4. True or False? If one of the numerator or denominator is a number that can only be divided by 1, fraction can be simplified.

False

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

a. $\frac{4}{6}$ b. $\frac{2}{15}$ c. $\frac{3}{9}$ d. $\frac{6}{10}$

e. $\frac{1}{3}$ f. $\frac{3}{7}$ g. $\frac{1}{6}$ h. $\frac{5}{15}$

Solution:
a. No, $\frac{2}{3}$ e. Yes
b. Yes f. Yes
c. No, $\frac{1}{3}$ g. Yes
d. No, $\frac{3}{5}$ h. No, $\frac{1}{3}$