

Third Grade Number & Operations-Fractions

Third Grade Test Number & Operations-Fractions

Name _____ Teacher _____ Date _____

3.NF.A.1 Understand a fraction $1/b$ as the quantity formed by 1 part when a whole is partitioned into b equal parts; understand a fractions a/b as the quantity formed by a parts of size $1/b$.

1. Identify the fraction for the following representation. Circle your answer.

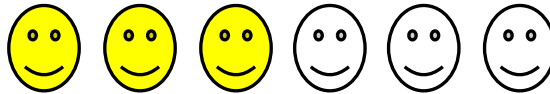


a. $\frac{1}{3}$

b. $\frac{3}{5}$

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

2. Write the fraction for the following set of yellow smiley faces. Circle your answer.



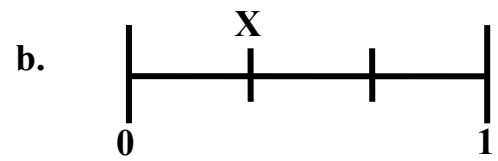
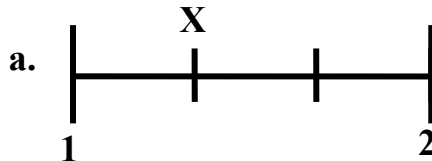
a. $\frac{3}{6}$

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

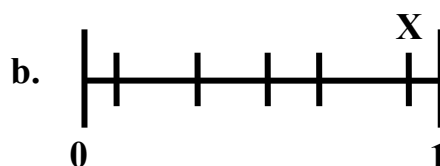
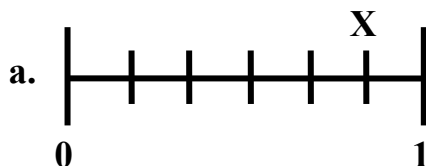
c. $\frac{6}{6}$

3.NF.A.2 (a) Represent a fraction $1/b$ on a number line diagram by defining the interval from 0 to 1 as the whole and partitioning it into b equal parts.

3. Identify the correct representation of a number line diagram for $\frac{1}{3}$. Circle your answer.



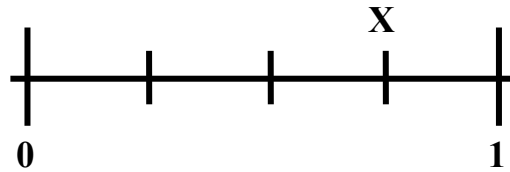
4. Identify the correct representation of a number line diagram for $\frac{5}{6}$. Circle your answer.



Third Grade Number & Operations-Fractions

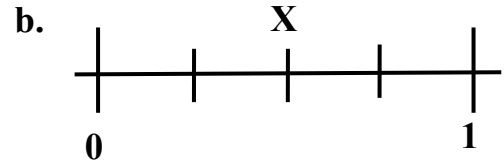
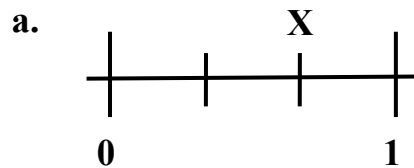
3.NF.A.2b Represent a fraction a/b on a number line diagram by marking off a lengths $1/b$ from 0. Recognize that the resulting interval has size a/b and that its endpoint locates the number a/b and that its endpoint locates the number a/b on the number line.

5. Identify the fraction for X on the number line.



- a. $\frac{4}{5}$ b. $\frac{3}{6}$ c. $\frac{3}{4}$

6. Which number line represents $\frac{2}{3}$?



3.NF.A.3(a) Understand two fractions as equivalent (equal) if they are the same size, or the same point on a number line.

7. Choose the equivalent fraction for the set of stars.

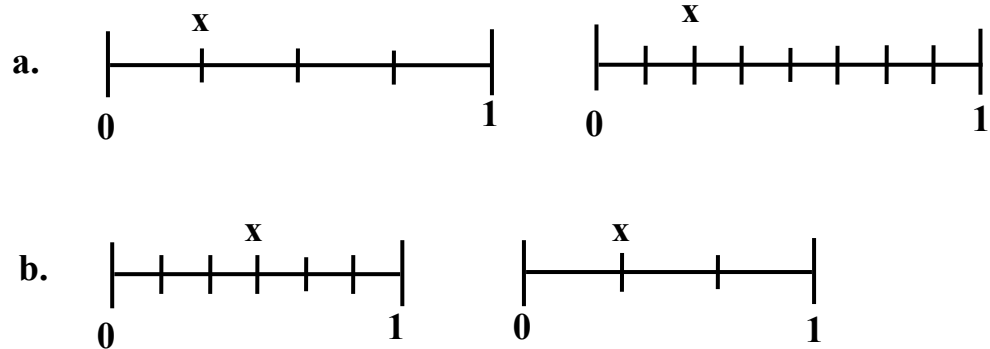


$$\frac{2}{3} = \underline{\hspace{2cm}}$$

- a. $\frac{2}{3}$ b. $\frac{2}{6}$ c. $\frac{4}{6}$

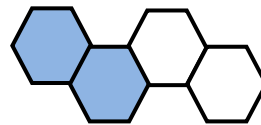
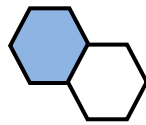
Third Grade Number & Operations-Fractions

8. Which two number lines exhibit equivalent fractions?



3.NF.A.3(b) Recognize and generate simple equivalent fractions.

9. Choose the equivalent fractions for the shaded areas.

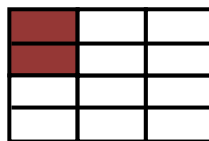
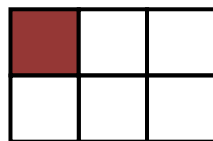


a. $\frac{2}{2}$ $\frac{2}{4}$

b. $\frac{1}{2}$ $\frac{2}{4}$

c. $\frac{1}{2}$ $\frac{4}{4}$

10. Choose the equivalent fraction for the representation.



$$\frac{1}{6} = \underline{\hspace{2cm}}$$

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

b. $\frac{2}{4}$

c. $\frac{2}{12}$

3.NF.A.3(c) Express whole numbers as fractions, and recognize fractions that are equivalent to whole numbers.

11. Which is the equivalent for one whole?

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

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

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

Third Grade Number & Operations-Fractions

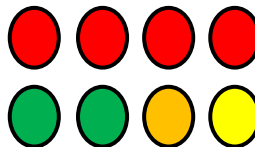
12. Which statement is false?

a. $\frac{1}{8}$ of the circles are orange.

b. $\frac{2}{8}$ of the circles are green.

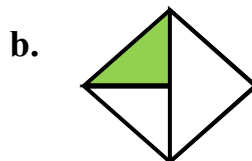
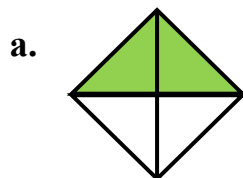
c. $\frac{1}{2}$ of the circles are red.

d. $\frac{8}{8}$ of the circles are yellow.



3.NF.A.3(d) Compare two fractions with the same numerator or the same denominator by reasoning about their size. Record the results of comparisons with the symbols $>$, $=$, or $<$.

13. Which is greater, $\frac{1}{2}$ or $\frac{1}{4}$?



14. Compare the following fractions using the symbols, $<$, $>$, or $=$.

$$\frac{2}{6} \quad \bigcirc \quad \frac{4}{6}$$

a. $>$

b. $<$

c. $=$

Third Grade Number & Operations-Fractions

**Answer Key for Third Grade Test
Number & Operations-Fractions**

Standard	Answer
3.NF.A.1	1. b
	2. a
3.NF.A.2(a)	3. b
	4. a
3.NF.A.2(b)	5. c
	6. a
3.NF.A.3(a)	7. c
	8. a
3.NF.A.3(b)	9. b
	10. c
3.NF.A.3(c)	11. a
	12. d
3.NF.A.3(d)	13. a
	14. b