ALBERT

Name _____ Date _____

Understanding Fractions Worksheet

Grade 3 · Common Core 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 fraction a/b as the quantity formed by a parts of size 1/b.

Practice

Builds the skill step by step.

1. What fraction of the bar is shaded?



2. What fraction of the bar is shaded?



3. A pizza is cut into 8 equal slices. What fraction of the pizza is 1 slice?

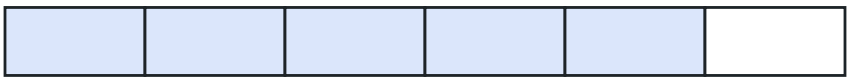
   A. $\frac{1}{7}$

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

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

   D. $\frac{8}{8}$

4. What fraction of the bar is shaded?



5. $\frac{3}{4}$ is 3 parts. What is the size of each part, as a fraction of the whole?

6. How many parts of size $\frac{1}{6}$ make $\frac{5}{6}$?

7. What fraction of the bar is shaded?



8. A whole is split into 2 equal parts. What fraction of the whole is one part?

9. In the fraction $\frac{2}{3}$, what does the 3 tell you?

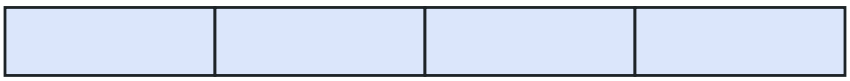
   A. The whole is split into 3 equal parts.

   B. 3 parts are shaded.

   C. There are 3 wholes.

   D. Each part is 3 units long.

10. What fraction of the bar is shaded? Use the number of parts as the bottom number.



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On Level

Grade-level practice.

1. Sam ate 3 of the 8 equal slices of a pizza. What fraction of the pizza did he eat?

2. What fraction of the bar is NOT shaded?



3. A ribbon is cut into 4 equal pieces. Mia uses 3 of the pieces. What fraction of the ribbon does she use?

4. Which fraction is made of 5 parts of size $\frac{1}{8}$?

   A. $\frac{1}{5}$

   B. $\frac{5}{8}$

   C. $\frac{5}{1}$

   D. $\frac{8}{5}$

5. Write $\frac{2}{6}$ as a sum of unit fractions.

6. A garden has 6 equal sections. One section has carrots and 2 sections have beans. What fraction of the garden has beans?

7. How many eighths make one whole?

8. Jo cuts a sandwich into 2 pieces. One piece is big and one is small. She says each piece is $\frac{1}{2}$ of the sandwich. Which is true?

   A. She is wrong, because there should be 3 pieces.

   B. She is right, because 1 + 1 = 2.

   C. She is right, because there are 2 pieces.

   D. She is wrong, because the 2 pieces are not equal.

9. A cake is cut into 8 equal pieces. 5 pieces are eaten. What fraction of the cake is left?

10. The shaded part of the bar is how many copies of $\frac{1}{3}$?



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Challenge

Multi-step and word problems that stretch it.

1. A whole is cut into equal parts. Each part is $\frac{1}{6}$ of the whole. How many parts are there?

2. A bar is 12 inches long. It is split into 4 equal parts. How long is $\frac{1}{4}$ of the bar?

3. Which fraction is a unit fraction?

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

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

   C. $\frac{3}{3}$

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

4. Ari says $\frac{1}{4}$ of a pizza is more than $\frac{1}{2}$ of the same pizza because 4 is more than 2. Which is true?

   A. They are the same amount.

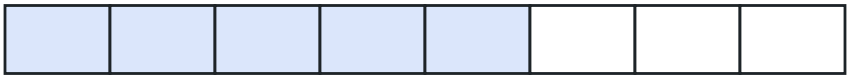
   B. $\frac{1}{4}$ is more, because there are more parts.

   C. Ari is right.

   D. $\frac{1}{2}$ is more, because cutting the pizza into 2 parts makes bigger parts than cutting it into 4.

5. A fraction is made of 6 parts of size $\frac{1}{8}$. What is the fraction?

6. How many more eighths need to be shaded so the whole bar is shaded?



7. $\frac{7}{8}$ is how many copies of $\frac{1}{8}$?

8. Two pizzas are the same size. One is cut into 6 equal slices. The other is cut into 8 equal slices. Which slice is bigger?

   A. a slice from the pizza cut into 6

   B. a slice from the pizza cut into 8

   C. They are the same size.

   D. You can't tell.

9. A muffin pan has 6 equal cups. Kim fills 4 of the cups with batter. What fraction of the cups are filled?

10. Bars A and B are the same length. How many eighths of bar B cover the same amount as the shaded $\frac{1}{4}$ of bar A?

