

Pizza Night at Nonna's

Name _____

Grade 4 • Comparing fractions • 4.NF.A.2

Date _____



Nonna cut every pizza into equal slices, and now the whole family is arguing about who got the most. Settle it before the pizza gets cold!

Warm-up Write $>$, $<$ or $=$. Think about $\frac{1}{2}$.

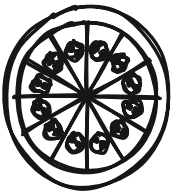
$$\frac{11}{12} \bigcirc \frac{1}{2}$$

$$\frac{1}{12} \bigcirc \frac{1}{2}$$

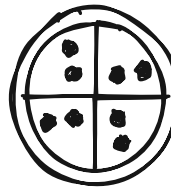
$$\frac{3}{6} \bigcirc \frac{1}{2}$$

$$\frac{9}{10} \bigcirc \frac{1}{2}$$

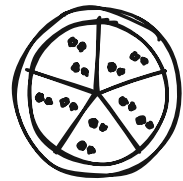
Slice showdown Shade what each person ate. The pizzas are all the same size.



Cousin Tony ate $\frac{2}{12}$ of the pepperoni pizza.



Bella ate $\frac{3}{4}$ of the olive pizza.



Leo ate $\frac{4}{5}$ of the cheese pizza.



Marco ate $\frac{1}{10}$ of the mushroom pizza.

Who ate more? _____

Who ate more? _____

Nonna's secret topping Circle the bigger fraction in each pair. Use the code to spell it.

1

$$\frac{8}{10} \quad \frac{1}{5}$$

2

$$\frac{5}{6} \quad \frac{1}{2}$$

3

$$\frac{5}{8} \quad \frac{1}{4}$$

4

$$\frac{2}{3} \quad \frac{3}{12}$$

5

$$\frac{4}{6} \quad \frac{1}{3}$$

5/6 = L 4/6 = E 1/3 = K 8/10 = O 1/4 = U
1/2 = B 1/5 = C 3/12 = F 2/3 = V 5/8 = I

Nonna's secret topping is 1 2 3 4 5

Challenge: leftovers Nonna saved parts of four pizzas. Order them, least to greatest.

$\frac{2}{4}$

$\frac{11}{12}$

$\frac{6}{8}$

$\frac{7}{10}$

_____ < _____ < _____ < _____

Pizza Night at Nonna's

Grade 4 · Comparing fractions · 4.NF.A.2

ANSWER KEY



Nonna cut every pizza into equal slices, and now the whole family is arguing about who got the most. Settle it before the pizza gets cold!

Warm-up Write $>$, $<$ or $=$. Think about $\frac{1}{2}$.

$$\frac{11}{12} > \frac{1}{2}$$

$$\frac{1}{12} < \frac{1}{2}$$

$$\frac{3}{6} = \frac{1}{2}$$

$$\frac{9}{10} > \frac{1}{2}$$

Slice showdown Shade what each person ate. The pizzas are all the same size.



Cousin Tony ate $\frac{2}{12}$ of the pepperoni pizza.



Bella ate $\frac{3}{4}$ of the olive pizza.

Who ate more? Bella $\frac{3}{4} = \frac{9}{12}$, and $\frac{2}{12} < \frac{9}{12}$



Leo ate $\frac{4}{5}$ of the cheese pizza.



Marco ate $\frac{1}{10}$ of the mushroom pizza.

Who ate more? Leo $\frac{4}{5} = \frac{8}{10}$, and $\frac{8}{10} > \frac{1}{10}$

Nonna's secret topping Circle the bigger fraction in each pair. Use the code to spell it.

1 $\frac{8}{10}$ $\frac{1}{5}$

2 $\frac{5}{6}$ $\frac{1}{2}$

3 $\frac{5}{8}$ $\frac{1}{4}$

4 $\frac{2}{3}$ $\frac{3}{12}$

5 $\frac{4}{6}$ $\frac{1}{3}$

$\frac{5}{6} = L$ $\frac{4}{6} = E$ $\frac{1}{3} = K$ $\frac{8}{10} = O$ $\frac{1}{4} = U$
 $\frac{1}{2} = B$ $\frac{1}{5} = C$ $\frac{3}{12} = F$ $\frac{2}{3} = V$ $\frac{5}{8} = I$

Nonna's secret topping is O L I V E
 1 2 3 4 5

Challenge: leftovers Nonna saved parts of four pizzas. Order them, least to greatest.

$\frac{2}{4}$ $\frac{11}{12}$ $\frac{6}{8}$ $\frac{7}{10}$

$\frac{2}{4}$ < $\frac{7}{10}$ < $\frac{6}{8}$ < $\frac{11}{12}$

Pizza Night at Nonna's

Grade 4 · Comparing fractions · 4.NF.A.2

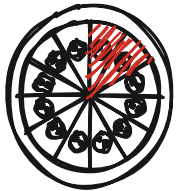
GUIDE

1 What this sheet practises

Comparing fractions with different tops and bottoms, using pictures, a benchmark like $\frac{1}{2}$, or fractions renamed to the same denominator.

2 A problem from the sheet, worked out

Slice showdown Shade what each person ate. The pizzas are all the same size.



Cousin Tony ate $\frac{2}{12}$ of the pepperoni pizza.



Bella ate $\frac{3}{4}$ of the olive pizza.

Who ate more? Bella $\frac{3}{4} = \frac{9}{12}$, and $\frac{2}{12} < \frac{9}{12}$



Leo ate $\frac{4}{5}$ of the cheese pizza.



Marco ate $\frac{1}{10}$ of the mushroom pizza.

Who ate more? Leo $\frac{4}{5} = \frac{8}{10}$, and $\frac{8}{10} > \frac{1}{10}$

How: Shade each fraction of the same-size whole and see which covers more. Or compare each to $\frac{1}{2}$, or rename both with the same bottom number and compare the tops.

3 Words to know

benchmark a handy fraction to compare with, like $\frac{1}{2}$

common denominator the same bottom number

equivalent worth the same amount

$>$ $<$ greater than, less than

4 Watch for

- Thinking $\frac{1}{8}$ is more than $\frac{1}{6}$ because 8 is more than 6.
- Comparing only the tops when the bottoms are different.

5 Where it fits

BEFORE

3.NF.A.3

Find equivalent fractions and compare fractions by thinking about their size.

THIS SHEET

4.NF.A.2

Compare fractions with different numerators and denominators.

NEXT

5.NF.A.1

Add and subtract fractions with unlike denominators.

6 Helping at home

Ask which is more, $\frac{3}{4}$ of a pizza or $\frac{2}{3}$ of the same pizza. Draw both and let the pictures decide.