

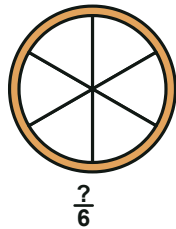
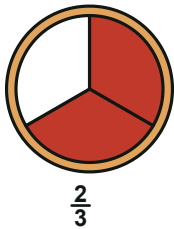
CEDAR HOLLOW SLICE SHOP • LEVEL 2: ON LEVEL

Slice Shop: Equivalent Orders

Equivalent fractions name the same amount. Use the pies, or multiply the numerator and the denominator by the same number. Red slices are served. Show your thinking.

Part 1: Serve with smaller slices

- 1 Zoe wants $\frac{2}{3}$ of a blueberry pie. Today the same-size pies are cut into 6 slices. How many slices do you serve?



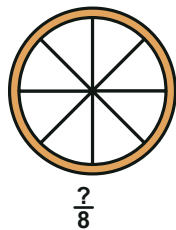
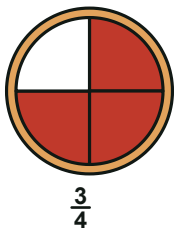
A. 4

B. 2

C. 3

D. 6

- 2 Ana wants $\frac{3}{4}$ of a pie. The first pie shows $\frac{3}{4}$. Shade the second pie to show the same amount. Then write the fraction in eighths.



- 3 Fill in the missing numbers: $\frac{1}{2} = \frac{\quad}{10}$, $\frac{3}{4} = \frac{9}{\quad}$, and $\frac{2}{3} = \frac{\quad}{12}$.

- 4 Kai ordered $\frac{1}{3}$ of a pie. Which amount is **not** the same as $\frac{1}{3}$ of a pie?

A. $\frac{2}{6}$ B. $\frac{3}{6}$ C. $\frac{4}{12}$

- 5 $\frac{2}{3} = \frac{3}{4}$, because you add 1 to the top and 1 to the bottom.

Circle one.

True

False

Part 2: Compare orders

- 6 Leo ordered $\frac{3}{4}$ of a pie. Zoe ordered $\frac{5}{8}$ of a same-size pie. Who gets the bigger box?
- A. Zoe B. Same size boxes C. Leo

- 7 Sort each order into the box with the fraction it is equal to.

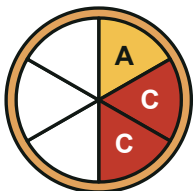
ITEMS TO SORT



$\frac{1}{2}$	$\frac{1}{4}$	$\frac{2}{3}$

Part 3: Label the box

- 8 Sam's box has $\frac{1}{6}$ of the apple pie and $\frac{2}{6}$ of the cherry pie. Which label goes on the box?



A = apple
C = cherry
white = empty

- A. $\frac{3}{12}$ B. $\frac{3}{6}$ C. $\frac{2}{6}$
- 9 Write the label for each box: $\frac{2}{8} + \frac{3}{8} =$ _____ and $\frac{1}{4} + \frac{2}{4} =$ _____.
- 10 Ana ordered $\frac{4}{8}$ of a pie. Mr. Okafor ordered $\frac{1}{2}$ of a same-size pie. Ana says she gets more pie because 4 is more than 1. Is she right? Explain with a model or numbers.

Answer Key

Slice Shop: Equivalent Orders

Part 1: Serve with smaller slices

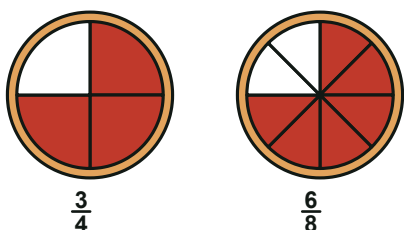
- 1 Zoe wants $\frac{2}{3}$ of a blueberry pie. Today the same-size pies are cut into 6 slices. How many slices do you serve?

A. 4

Each third is 2 sixths, so $\frac{2}{3} = \frac{4}{6}$. Also, 2 times 2 = 4 and 3 times 2 = 6.

- 2 Ana wants $\frac{3}{4}$ of a pie. The first pie shows $\frac{3}{4}$. Shade the second pie to show the same amount. Then write the fraction in eighths.

Look for: 6 of the 8 slices are shaded. So $\frac{3}{4} = \frac{6}{8}$.



- 3 Fill in the missing numbers: $\frac{1}{2} = \frac{\quad}{10}$, $\frac{3}{4} = \frac{9}{\quad}$, and $\frac{2}{3} = \frac{\quad}{12}$.

Fill in the missing numbers: $\frac{1}{2} = \frac{5}{10}$, $\frac{3}{4} = \frac{9}{12}$, and $\frac{2}{3} = \frac{8}{12}$.

1 times 5 = 5 and 2 times 5 = 10. 3 times 3 = 9, so 4 times 3 = 12. 2 times 4 = 8 and 3 times 4 = 12.

- 4 Kai ordered $\frac{1}{3}$ of a pie. Which amount is **not** the same as $\frac{1}{3}$ of a pie?

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

$\frac{2}{6}$ and $\frac{4}{12}$ equal $\frac{1}{3}$. $\frac{3}{6}$ equals $\frac{1}{2}$, because 3 is half of 6.

- 5 $\frac{2}{3} = \frac{3}{4}$, because you add 1 to the top and 1 to the bottom.

False

Adding the same number does not make an equivalent fraction. $\frac{2}{3} = \frac{8}{12}$ and $\frac{3}{4} = \frac{9}{12}$, so they are not equal.

Part 2: Compare orders

- 6 Leo ordered $\frac{3}{4}$ of a pie. Zoe ordered $\frac{5}{8}$ of a same-size pie. Who gets the bigger box?

C. Leo

$\frac{3}{4} = \frac{6}{8}$, and $\frac{6}{8} > \frac{5}{8}$. So Leo ordered more pie.

- 7 Sort each order into the box with the fraction it is equal to.

$\frac{1}{2}$	$\frac{1}{4}$	$\frac{2}{3}$
$\frac{2}{4}$	$\frac{2}{8}$	$\frac{4}{6}$
$\frac{5}{10}$	$\frac{3}{12}$	$\frac{8}{12}$

Part 3: Label the box

- 8 Sam's box has $\frac{1}{6}$ of the apple pie and $\frac{2}{6}$ of the cherry pie. Which label goes on the box?

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

$\frac{1}{6} + \frac{2}{6} = \frac{3}{6}$. Add the top numbers. The slices are still sixths, so the bottom number stays 6. $\frac{3}{12}$ adds the bottom numbers too.

- 9 Write the label for each box: $\frac{2}{8} + \frac{3}{8} = \underline{\quad}$ and $\frac{1}{4} + \frac{2}{4} = \underline{\quad}$.

Write the label for each box: $\frac{2}{8} + \frac{3}{8} = \frac{5}{8}$ and $\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$.

Add the top numbers and keep the bottom number.

- 10 Ana ordered $\frac{4}{8}$ of a pie. Mr. Okafor ordered $\frac{1}{2}$ of a same-size pie. Ana says she gets more pie because 4 is more than 1. Is she right? Explain with a model or numbers.

Sample answer: No. They ordered the same amount. $\frac{1}{2} = \frac{4}{8}$ (multiply the top and bottom by 4).

Eighths are smaller slices than halves, so it takes 4 eighths to make the same half.