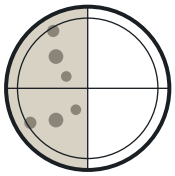
Pizza Fractions

Count the slices with toppings, then count all the slices · grades 3–5

Name _____ **Date** _____ **Score** _____ **/ 44**

HOW A PIZZA SHOWS A FRACTION



This pizza is cut into **4** equal slices. **2** of them have toppings.

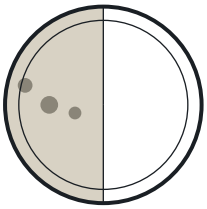
$\frac{2}{4}$ ← **NUMERATOR** slices with toppings

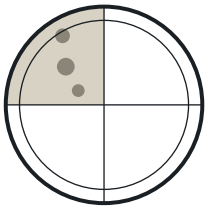
← **DENOMINATOR** equal slices in the whole pizza

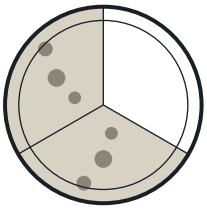
Always count the *whole* pizza for the bottom number — even the plain slices.

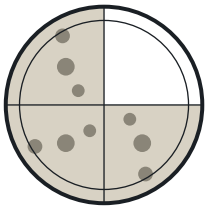
SECTION A Name that slice

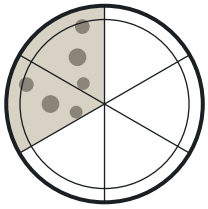
Write the fraction of each pizza that has toppings. Count the topped slices, then count all the slices.

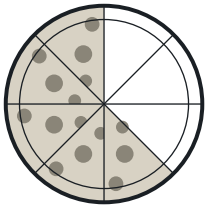
1  $\frac{\square}{\square}$

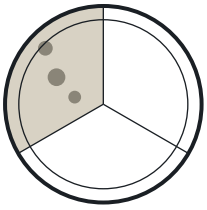
2  $\frac{\square}{\square}$

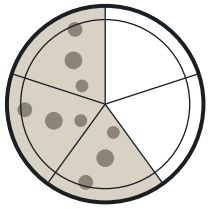
3  $\frac{\square}{\square}$

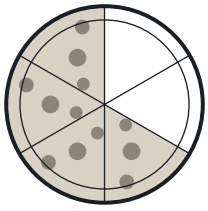
4  $\frac{\square}{\square}$

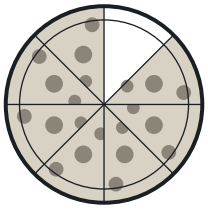
5  $\frac{\square}{\square}$

6  $\frac{\square}{\square}$

7  $\frac{\square}{\square}$

8  $\frac{\square}{\square}$

9  $\frac{\square}{\square}$

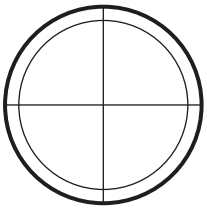
10  $\frac{\square}{\square}$

Pizza Fractions

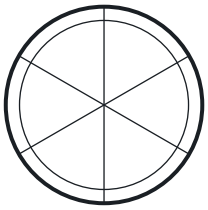
Shading a fraction, and working out how much more makes a whole pizza

SECTION B Colour the pizza

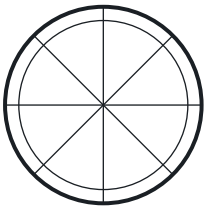
Shade the slices so each pizza shows the fraction in the box beside it.

11 

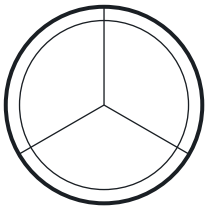
SHADE $\frac{3}{4}$

12 

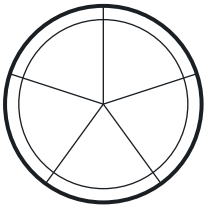
SHADE $\frac{2}{6}$

13 

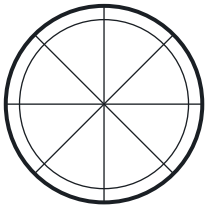
SHADE $\frac{5}{8}$

14 

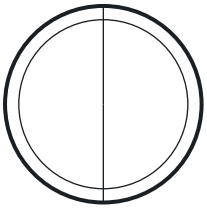
SHADE $\frac{1}{3}$

15 

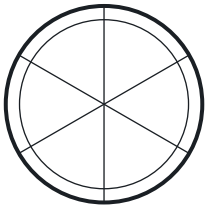
SHADE $\frac{2}{5}$

16 

SHADE $\frac{7}{8}$

17 

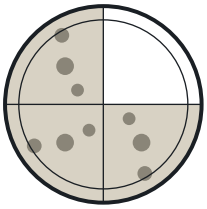
SHADE $\frac{1}{2}$

18 

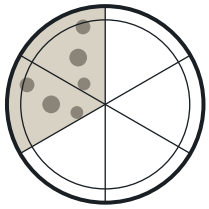
SHADE $\frac{4}{6}$

SECTION C Making one whole

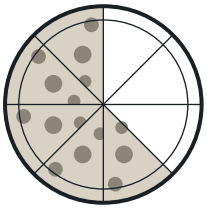
Each pizza is part-way to a whole. Write the fraction still missing — the slices with no toppings.

19 

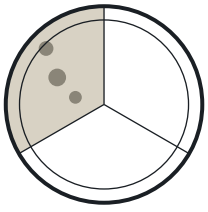
HOW MUCH MORE? $\frac{\square}{\square}$

20 

HOW MUCH MORE? $\frac{\square}{\square}$

21 

HOW MUCH MORE? $\frac{\square}{\square}$

22 

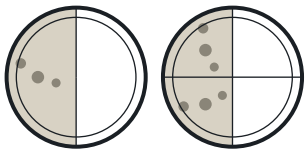
HOW MUCH MORE? $\frac{\square}{\square}$

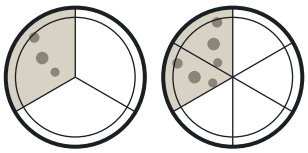
Pizza Fractions

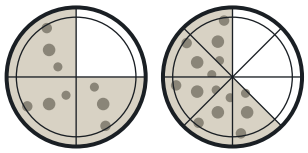
Two pizzas at a time — the same amount, or a bigger one

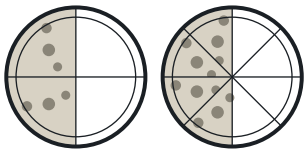
SECTION D Equivalent fractions

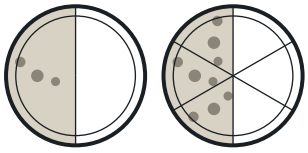
Write the fraction each pizza shows. Then circle YES if they show the same amount, or NO if they do not.

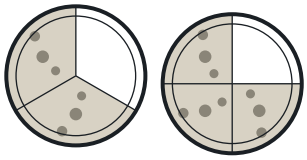
23  ☐/☐ ☐/☐ YES / NO

24  ☐/☐ ☐/☐ YES / NO

25  ☐/☐ ☐/☐ YES / NO

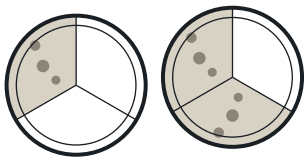
26  ☐/☐ ☐/☐ YES / NO

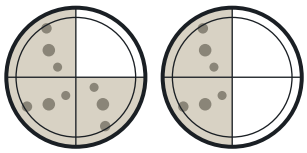
27  ☐/☐ ☐/☐ YES / NO

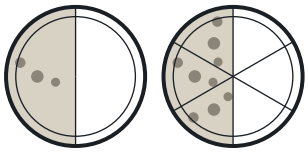
28  ☐/☐ ☐/☐ YES / NO

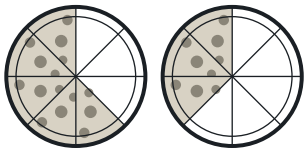
SECTION E Which pizza shows more?

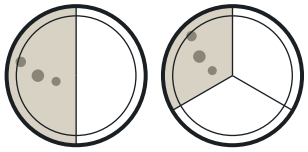
Write both fractions, then circle the correct sign between them: < is smaller, > is bigger, = is the same.

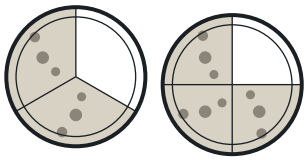
29  ☐/☐ ☐/☐ < > =

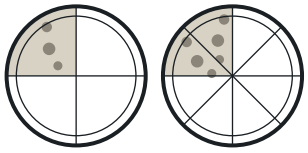
30  ☐/☐ ☐/☐ < > =

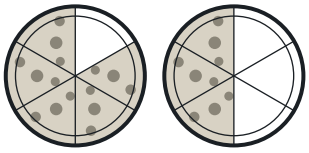
31  ☐/☐ ☐/☐ < > =

32  ☐/☐ ☐/☐ < > =

33  ☐/☐ ☐/☐ < > =

34  ☐/☐ ☐/☐ < > =

35  ☐/☐ ☐/☐ < > =

36  ☐/☐ ☐/☐ < > =

Pizza Fractions

Writing a fraction in its simplest form

SIMPLEST FORM

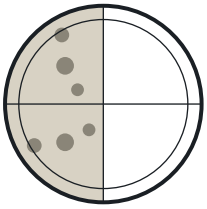
A fraction is in its simplest form when no number divides into the top and the bottom. Imagine cutting the pizza into fewer, bigger slices without changing how much pizza you have.

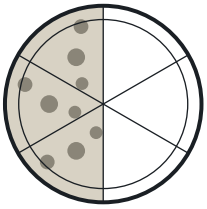


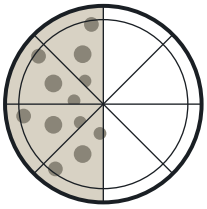
This pizza shows $\frac{3}{6}$. Both 3 and 6 divide by **3**, so $\frac{3}{6} = \frac{3 \div 3}{6 \div 3} = \frac{1}{2}$ — the same amount of pizza, named with smaller numbers.

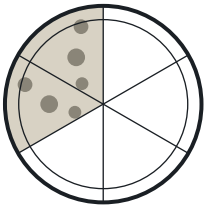
SECTION F Simplify the fraction

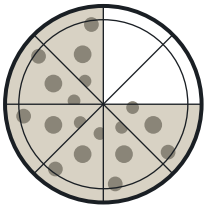
Write the fraction the pizza shows, then write it again in its simplest form.

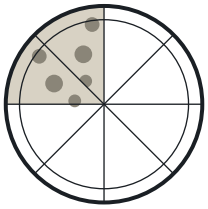
37  $\frac{\square}{\square} = \frac{\square}{\square}$

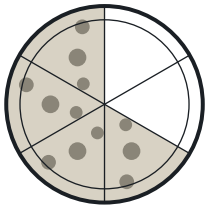
38  $\frac{\square}{\square} = \frac{\square}{\square}$

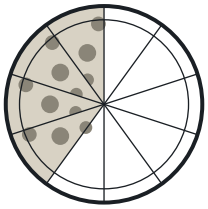
39  $\frac{\square}{\square} = \frac{\square}{\square}$

40  $\frac{\square}{\square} = \frac{\square}{\square}$

41  $\frac{\square}{\square} = \frac{\square}{\square}$

42  $\frac{\square}{\square} = \frac{\square}{\square}$

43  $\frac{\square}{\square} = \frac{\square}{\square}$

44  $\frac{\square}{\square} = \frac{\square}{\square}$

THE MISTAKE TO AVOID

Count *every* slice for the bottom number, not just the plain ones. A pizza in 8 slices with 3 topped is $\frac{3}{8}$ — never $\frac{3}{5}$.

Answer Key

Every answer checked with exact fraction arithmetic before this sheet was made.

SECTION A Name that slice

Topped slices over total slices.

1. $\frac{1}{2}$
2. $\frac{1}{4}$
3. $\frac{2}{3}$
4. $\frac{3}{4}$
5. $\frac{2}{6}$
6. $\frac{5}{8}$
7. $\frac{1}{3}$
8. $\frac{3}{5}$
9. $\frac{4}{6}$
10. $\frac{7}{8}$

SECTION B Colour the pizza

Number of slices the student should have shaded.

11. shade **3** of the 4 slices
12. shade **2** of the 6 slices
13. shade **5** of the 8 slices
14. shade **1** of the 3 slices
15. shade **2** of the 5 slices
16. shade **7** of the 8 slices
17. shade **1** of the 2 slices
18. shade **4** of the 6 slices

SECTION C Making one whole

Total slices minus the topped ones.

19. $\frac{1}{4}$ ($\frac{3}{4} + \frac{1}{4} = 1$)
20. $\frac{4}{6}$ ($\frac{2}{6} + \frac{4}{6} = 1$)
21. $\frac{3}{8}$ ($\frac{5}{8} + \frac{3}{8} = 1$)
22. $\frac{2}{3}$ ($\frac{1}{3} + \frac{2}{3} = 1$)

Answer Key

Equivalent fractions, comparing and simplest form

SECTION D Equivalent fractions

Simplify both and compare.

23. $\frac{1}{2}, \frac{2}{4}$ **YES** ($\frac{1}{2}, \frac{1}{2}$)

24. $\frac{1}{3}, \frac{2}{6}$ **YES** ($\frac{1}{3}, \frac{1}{3}$)

25. $\frac{3}{4}, \frac{5}{8}$ **NO** ($\frac{3}{4}, \frac{5}{8}$)

26. $\frac{2}{4}, \frac{4}{8}$ **YES** ($\frac{1}{2}, \frac{1}{2}$)

27. $\frac{1}{2}, \frac{3}{6}$ **YES** ($\frac{1}{2}, \frac{1}{2}$)

28. $\frac{2}{3}, \frac{3}{4}$ **NO** ($\frac{2}{3}, \frac{3}{4}$)

SECTION E Which pizza shows more?

29. $\frac{1}{3} < \frac{2}{3}$

30. $\frac{3}{4} > \frac{2}{4}$

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

32. $\frac{5}{8} > \frac{3}{8}$

33. $\frac{1}{2} > \frac{1}{3}$

34. $\frac{2}{3} < \frac{3}{4}$

35. $\frac{1}{4} = \frac{2}{8}$

36. $\frac{5}{6} > \frac{3}{6}$

SECTION F Simplify the fraction

Divide top and bottom by the same number.

37. $\frac{2}{4} = \frac{2 \div 2}{4 \div 2} = \frac{1}{2}$

38. $\frac{3}{6} = \frac{3 \div 3}{6 \div 3} = \frac{1}{2}$

39. $\frac{4}{8} = \frac{4 \div 4}{8 \div 4} = \frac{1}{2}$

40. $\frac{2}{6} = \frac{2 \div 2}{6 \div 2} = \frac{1}{3}$

41. $\frac{6}{8} = \frac{6 \div 2}{8 \div 2} = \frac{3}{4}$

42. $\frac{2}{8} = \frac{2 \div 2}{8 \div 2} = \frac{1}{4}$

43. $\frac{4}{6} = \frac{4 \div 2}{6 \div 2} = \frac{2}{3}$

44. $\frac{4}{10} = \frac{4 \div 2}{10 \div 2} = \frac{2}{5}$