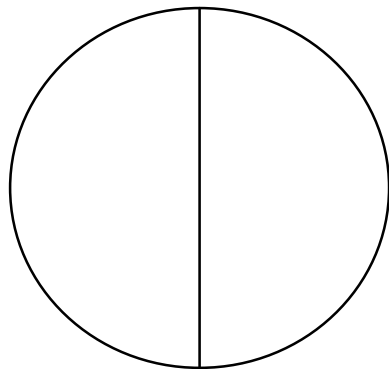
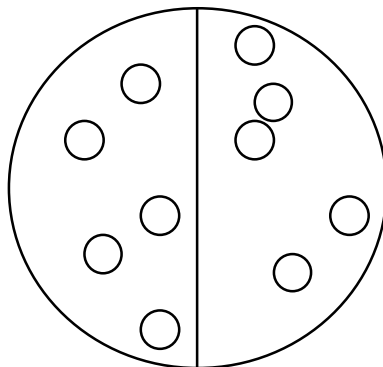


Pizza Fractions: Finding fractions of a given amount

For this activity the children will need a collection of 'pizza' sheets. These can just be A4 sheets with a large circular pizza shape in the middle. There should be different sheets for different divisions of pizza, for example

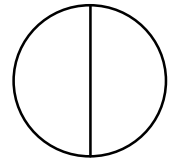


...to represent halves. The children then use some form of counters as pepperoni. For example to find the answer to 'What is $\frac{1}{2}$ of 10?' the children would place 10 pepperoni equally on the pizza pieces.



To make these sheets more suitable for use with junior children change fractions of the form $\frac{3}{4}$ to be written as $\frac{3}{4}$.

Pizza Place Challenge



1. Fred and Bob cut their pizza into **half**. Put **10 pepperoni** on so that they each have the same amount.

What is $\frac{1}{2}$ of 10?

2. Danni and Lucy cut their pizza into half. Put 6 pepperoni on so that they each have the same amount.

What is $\frac{1}{2}$ of 6?

3. Derek and Arnold cut their pizza into half. Put 14 pepperoni on so that they each have the same amount.

What is $\frac{1}{2}$ of 14?

4. Mike and Tina cut their pizza into half. Put 20 pepperoni on so that they each have the same amount.

What is $\frac{1}{2}$ of 20?

5. Denise and Glenn cut their pizza into half. Put 18 pepperoni on so that they each have the same amount.

What is $\frac{1}{2}$ of 18?

Pizza Place Challenge 2

6. Fred and Bob cut their pizza into **thirds**. Put **9 pepperoni** on so that each slice has the same amount.

What is $\frac{1}{3}$ of 9?

7. Danni and Lucy cut their pizza into **quarters**. Put **12 pepperoni** on so that each slice has the same amount.

What is $\frac{1}{4}$ of 12?

8. Derek and Arnold cut their pizza into **thirds**. Put **15 pepperoni** on so that each slice has the same amount.

What is $\frac{1}{3}$ of 15?

9. Mike and Tina cut their pizza into **fifths**. Put **20 pepperoni** on so that each slice has the same amount.

What is $\frac{1}{5}$ of 20?

10. Denise and Glenn cut their pizza into **thirds**. Put **18 pepperoni** on so that each slice has the same amount.

What is $\frac{1}{3}$ of 18?

Pizza Place Challenge 3

Use your pizzas and pepperoni to help you answer these questions.

1. What is $\frac{1}{2}$ of 18?
2. What is $\frac{1}{4}$ of 8?
3. What is $\frac{1}{3}$ of 6?
4. What is $\frac{1}{5}$ of 10?
5. What is $\frac{1}{6}$ of 18?
6. What is $\frac{1}{2}$ of 12?
7. What is $\frac{1}{3}$ of 12?
8. What is $\frac{1}{4}$ of 16?
9. What is $\frac{1}{3}$ of 21?
10. What is $\frac{1}{4}$ of 24?

Pizza Place Challenge 4

11. Fred and Bob cut their pizza into **thirds**. Put **12 pepperoni** on so that each slice has the same amount.

What is $1/3$ of 12?

Bob has two of the slices (two of the thirds). How many pepperoni does he eat?

What is $2/3$ of 12?

12. Danni and Lucy cut their pizza into **quarters**. Put 16 pepperoni on so that each slice has the same amount.

What is $1/4$ of 16?

If Danni ate two slices of pizza then how much pepperoni would she eat?

What is $2/4$ of 16?

If Lucy grabbed three pieces first, though, and ate them then how many pepperoni would she have eaten?

What is $3/4$ of 16?

13. Derek and Arnold cut their pizza into **thirds**. Put 21 pepperoni on so that each slice has the same amount.

What is $1/3$ of 21?

Derek decided to eat two of the pizza slices. How many pepperoni did he eat?

What is $2/3$ of 21?

14. Mike and Tina cut their pizza into **fifths**. Put 25 pepperoni on so that each slice has the same amount.

What is $1/5$ of 25?

Tina had three of the slices of pizza. How much pepperoni did she eat?

What is $3/5$ of 25?

Mike had the two remaining slices. How much pepperoni did he eat?

What is $2/5$ of 25?

15. Denise and Glenn cut their pizza into **thirds**. Put 9 pepperoni on so that each slice has the same amount.

What is $1/3$ of 9?

Glenn ate 6 pieces of pepperoni. How many slices of pizza did he eat?

Pizza Place Challenge 5

Use your pizzas and pepperoni to help you answer these questions.

Set your work out like this:

e.g. What is $\frac{3}{4}$ of 8?

$$\frac{1}{4} \text{ of } 8 = 2$$

$$\text{so } \frac{3}{4} \text{ of } 8 = 3 \times 2 = 6$$

1. What is $\frac{3}{4}$ of 12?
2. What is $\frac{2}{5}$ of 15?
3. What is $\frac{5}{6}$ of 12?
4. What is $\frac{2}{5}$ of 25?
5. What is $\frac{2}{3}$ of 30?
6. What is $\frac{4}{6}$ of 24?
7. What is $\frac{2}{3}$ of 24?
8. What is $\frac{3}{6}$ of 12?
9. What is $\frac{2}{4}$ of 12?