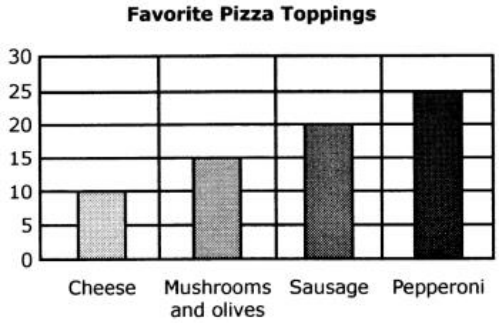
Possible Solutions

Jimmy asked his friends in his lunch period what their favorite pizza toppings were. The graph shows these results.



What is the approximate difference in the percentage of people that liked pepperoni on their pizza and the percentage of people that only liked cheese pizza?

Possible Solution 1

Given the bar graph above, a student will need to first find the total number of students surveyed which is 10+15+20+25 = 70.

% of Pepperoni

$\frac{25}{70}$	25 students chose pepperoni out of a total of 70
(25 ÷ 70) x 100	Change ratio to percentage, rounded to tenths place
35.7%	

% of Cheese

$\frac{10}{70}$	10 students chose cheese out of a total of 70
(10 ÷ 70) x 100	Change ratio to percentage, rounded to tenths place
14.3%	

Find the difference in the percentage, rounded to the nearest whole percent

35.7% - 14.3% = 21.4% = 21%

Possible Solution 2

Given the bar graph above, you need to find the total number of students surveyed which is 10+15+20+25 = 70.

% of Pepperoni

$\frac{25}{70}$	25 students chose pepperoni out of a total of 70
$\frac{25}{70} = \frac{\%}{100}$	Change ratio to percentage (rounded to tenths place)
$25 \times 100 = 70 \times \%$	Use cross-products to solve
2500 = 70 x %	
2500 = 70 x % s	Solve for the variable (rounded to the tenths place)
70 70	
% = 35.7%	

% of Cheese

$\frac{10}{70}$	10 students chose pepperoni out of a total of 70
$\frac{10}{70} = \frac{\%}{100}$	Change ratio to percentage (rounded to tenths place)
$10 \times 100 = 70 \times \%$	Use cross-products to solve
2000 = 70 x %	
1000 = 70 x %	Solve for the variable (rounded to the tenths place)
70 70	
% = 14.3%	

Find the difference in the percentage, rounded to the nearest whole percent

35.7% - 14.3% = 21.4% = 21%