



# Birthday Bash Word Problems



Abby invites 8 friends to her birthday party. Every friend is allowed to bring one guest to the party. If 3 of the friends she invited won't be able to attend, what is the maximum amount of people that could possibly attend her party?

$$8 - 3 = 5$$

$$5 \times 2 = 10$$

Maximum of 10 possible people attending.

John is trying to decide what size cake to make for his friend Carl's birthday. There will be 10 people at the party, but he wants to make a cake big enough so people can have more than one slice. If a small cake pan makes 12 slices and a large cake pan makes 24 slices, what size cake should he make?

$$10 \times 2 = 20$$

The cake must have at least 20 slices so each person can have 2 slices.

John should use the large cake pan.

Jenny's mom orders a large pizza for her birthday party. The pizza had 15 slices in the beginning. At the end, there were 5 pieces left. What fraction of pizza was eaten?

$$5/15 = 0.33$$

33% or 1/3 of the pizza is left.

Therefore 66% or 2/3 of the pizza was eaten.

Laura wants music to play during her party. If her party lasts 3 hours and each song is 5 minutes, how many songs should she have ready to play?

$$3 \text{ hours} \times 60 \text{ min} = 180 \text{ minutes}$$

$$180 / 5 = 36$$

Laura should have 36 songs ready to play.

Stacie's mom and dad are going to buy party favors for the guests. Their budget for the party favors is \$100 and Stacie invited 10 of her friends. What is the average amount they can spend on party favors for each person?

$$100 / 10 = 10$$

Stacie's parents can spend \$10 on each favor.

Derek's party takes 2 hours to set up and 2 hours to clean after. If his party is at 4pm and it lasts for 3 hours, what time will the entire party event start and end?

2 hours before 4 pm is 2pm.

The party will last 3 hours after 4pm. So the party will end at 7pm.

2 hours to clean after 7pm will be 9pm.

The party event will last from 2-9pm.

