

Name: _____

Sam's Birthday Party

Sam was planning a birthday party, and was trying to decide how much food to order. He invited 24 people to the party. Only $\frac{3}{4}$ of them were able to come. Sam wanted each guest to be able to eat 2 slices of pizza. He called Pizza Palace, and found out that a large pizza has 10 slices, a medium pizza has 8 slices, and a small pizza has 6 slices. The small pizza costs \$5, the medium pizza costs \$7, and a large pizza is \$9. Sam decided to order large pizzas for his party.



Sam's party began at 5:00pm. The last guest finally arrived at 6:10pm. They ate pizza, and then Sam opened his gifts. The tallest gift was a 36" tall TV from his parents. The shortest gift was a radio control car that was 3" tall. When Sam finished opening gifts, everyone went outside and played football. Sam's team scored 7 points, but Justin's team scored 21 more points. Finally, it was time for cake and cookies! Sam baked a dozen chocolate chip cookies, a dozen sugar cookies, and a dozen peanut butter cookies for his guests. Everyone had a great time at Sam's party, and he had a very happy birthday!

1. How many people are coming to Sam's party?
2. If the pattern continues, how much would an extra-large pizza cost?
3. How many slices of pizza does Sam need for each guest to eat 2 slices of pizza?
4. How many large pizzas would Sam need to order for each guest to eat 2 slices?
5. If each guest ate 2 slices, and Sam ate 2 slices, how many slices of pizza would be left over?
6. How much money did Sam spend on pizza?

7. If everyone Sam invited were able to come, and they each ate 2 slices of pizza, how many large pizzas would Sam need to order?

8. How many minutes late was the last guest?

9. How many feet tall was the tallest gift?

10. How many inches taller was the tallest gift than the shortest gift?

11. How many points did Justin's team score?

12. How many cookies did Sam bake?

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Answer Key

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1. How many people are coming to Sam's party? **18 people**
2. If the pattern continues, how much would an extra-large pizza cost? **\$11**
3. How many slices of pizza does Sam need for each guest to eat 2 slices of pizza? **36 slices**
4. How many large pizzas would Sam need to order for each guest to eat 2 slices? **4 pizzas**
5. If each guest ate 2 slices, and Sam ate 2 slices, how many slices of pizza would be left over?
2 slices
6. How much money did Sam spend on pizza? **\$36**
7. If everyone Sam invited were able to come, and they each ate 2 slices of pizza, how many large pizzas would Sam need to order? **5 large pizzas**
8. How many minutes late was the last guest? **70 minutes**
9. How many feet tall was the tallest gift? **3 feet tall**
10. How many inches taller was the tallest gift than the shortest gift? **33" taller**
11. How many points did Justin's team score? **28 points**
12. How many cookies did Sam bake? **48 cookies**