

Name _____

Date _____

Probability Word Problems Multi-Part-Problems Worksheet 1

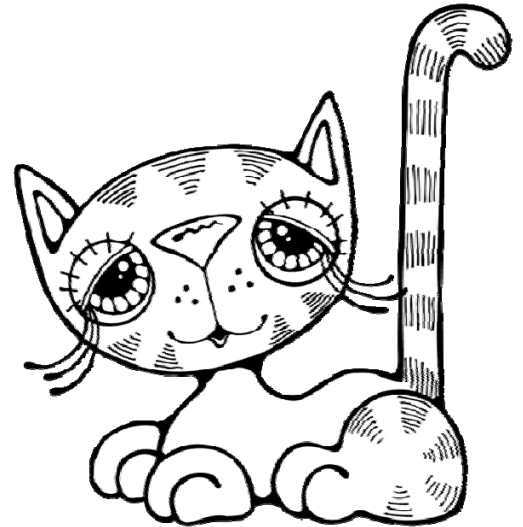
In a middle school with 200 students there are 40% girls. 20% of the students wear glasses. It is also known that 10% of the boys wear glasses.

1. How many boys are in this school?
2. How many girls don't wear glasses?
3. How many students are boys and wear glasses?

In a town, 45% of all households have a pet and 35% have children. 40% of all households with children have a pet. A household is chosen at random. Find the probability of that household

4. having no children, but a pet
5. having neither children nor a pet
6. having children, but no pets

In a research project about pet behavior a random sample of 500 cats was chosen. 52% of the cats liked to sleep inside the house. Fish was the favorite dish of 25% of those cats, while 62.5% of the cats sleeping outside had another favorite dish.



7. How many cats in the sample like fish?
8. A cat is chosen at random. What's the probability that she likes fish and sleeps inside?
9. How many cats in the sample don't like fish?
10. How many cats in the sample like to sleep outside and like fish?

