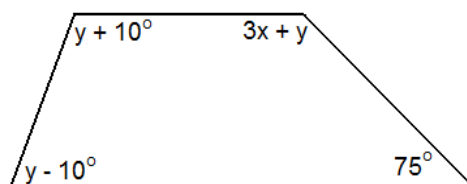
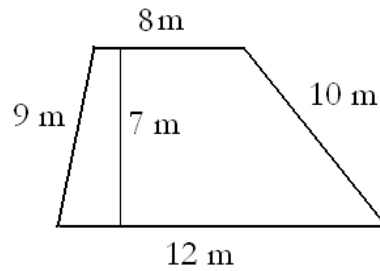


- After we took inventory, the results were as follows. Among 150 books, 105 were still used in courses, 99 were related to math, and 95 were written by men. 71 were still used in courses and related to math, 68 were still used in courses and were written by men, and 66 were related to math and written by men. 41 were still used in courses, related to math, and written by men.
 - Draw a Venn diagram depicting this data.
 - How many books are not in use anymore?
 - How many books are written by a woman and math related?
 - How many books are written by a woman, not math related and not in use anymore?
 - How many books are not math related?
- A book went on a 25% discount. The sale price is \$40.5. Find the original price.
- Sue's salary was raised from \$1600 to \$1712. What percent of a raise does this represent?
- We borrowed \$2000 for a year, with an annual simple interest rate of 6%. After 5 months, we make a partial payment of \$900. How much money do we owe at the end of the year?
- We have placed \$ 5 000 into a bank account, with an annual compound interest rate of 8%. How much money do we have in the account after 20 years if the bank compounds interest
 - annually
 - semi-annually
 - quarterly
 - monthly
 - daily
- We toss a die twice in a row.
 - What is the probability that we get a double 4?
 - What is the probability that we roll a 3 first and then a 4?
 - What is the probability that we roll a 3 and a 4?
 - What is the probability that the first number rolled is larger than the second number rolled?
 - What is the probability that the sum of the two numbers rolled is 9?
 - What is the probability that the sum of the two numbers rolled is odd?
 - What is the probability that the product of the two numbers rolled is odd?
- The picture given below shows a trapezoid. Find the values of x and y , based on the picture.



8. Consider the trapezoid shown on the picture below.



- (a) Find the perimeter the trapezoid. Include units in your answer.
- (b) Find the area of the trapezoid. Include units in your answer.

9. We pull a card from a stabdard deck of 52 cards.

- (a) What is the probability that we pull a red queen?
- (b) What is the probability that we pull a card that is red or queen?