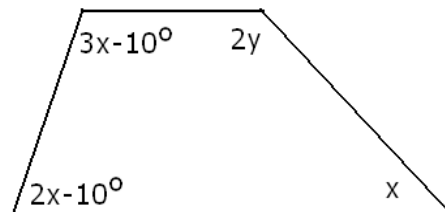
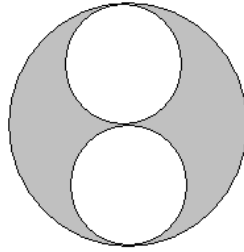


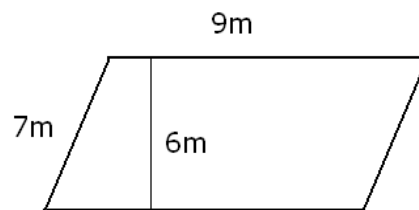
- We borrowed \$1000 for a year, with a simple annual interest rate of 8%. After 5 months, we make a partial payment of \$300. After an additional 3 months, we make another partial payment of \$350. How much do we have to pay at the end of the year?
- We placed \$100 into a bank account with an annual compound interest rate of 8%. How much money do we have in the account after 20 years if the bank compounds
 - annually
 - semi-annually
 - monthly
 - daily
 - continuously?
- We roll two dice.
 - What is the probability that the sum of the two numbers rolled is 10?
 - What is the probability that the product of the two numbers rolled is 12?
- We toss four coins.
 - What is the probability that we end up with four tails?
 - We toss four coins. What is the probability that we end up with three tails and one heads?
 - We toss four coins. What is the probability that we end up with two tails and two heads?
- We randomly pull a number from $\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$.
 - What is the probability that we pull a number divisible by 3?
 - What is the probability that we pull a number larger than 6?
- How many 7-element subsets does a set A have if $n(A) = 20$?
- Find the distance between $A(-1, 4)$ and $B(-7, 12)$.
- Find x and y based on the picture below.



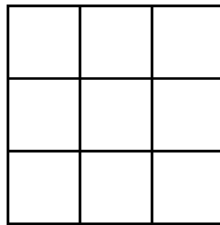
- Find the area of the shaded region on the picture below. The radius of the big circle is 16 in long.



10. The height of a pyramid is 15 m and its base is the parallelogram shown on the picture below. Find the volume of the pyramid.



11. How many rectangles are there on the picture below?



12. A book went on a 35% sale. The sale price is \$37.70. Find the original price.