

Name : \_\_\_\_\_

## Drawing Venn Diagram - Without Universal Set

Draw: S4

Draw Venn diagram based on the data provided and answer the questions that follow.

- 1) A community bank in Connecticut approved 11 auto loans, 10 business loans and 7 mortgages in one month.
- Two customers got a business loan and a mortgage approved but did not apply for an auto loan;
  - One customer signed up for an auto loan and a mortgage but did not apply for a business loan; and
  - Three customers were cleared for an auto and a business loan but not for a mortgage.

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a) Find the number of customers who applied for an auto loan, business loan, and a mortgage.

b) How many bank approvals were for a business loan?

c) List the total number of loans/mortgages approved by the community bank in Connecticut.

d) Find the number of loans/mortgages that were exclusively approved by the bank.

e) How many business loans were approved by the bank?

f) Find the number of loans approved by the bank, that fell in either of the two categories - auto loans or mortgages.

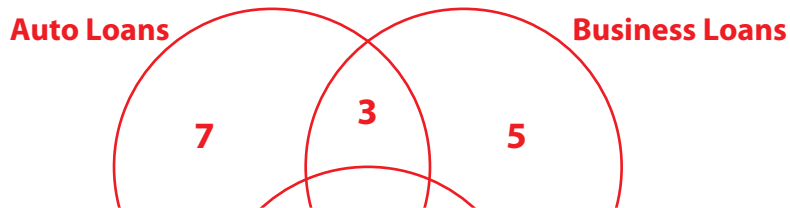
g) How many customers got at least 2 of the 3 loans/mortgages cleared by the community bank?

h) List the number of customers that received approvals for either a mortgage or a business loan.

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- |   |  |
|---|--|
| <p>a) Find the number of customers who received an auto loan, business loan, and a mortgage.</p>                              | <p><b>None</b></p> <hr/>                 |
| <p>b) How many bank approvals were for a business loan?</p>   | <p><b>(mortgage approvals)</b></p> <hr/> |
| <p>c) List the total number of loans approved by the community bank in Connecticut.</p>                                       | <p><b>22 loans</b></p> <hr/>             |
| <p>d) Find the number of loans approved that were exclusively auto loans.</p>   | <p><b>7 loans</b></p> <hr/>              |
| <p>e) How many business loans were approved?</p>  | <p><b>10 business loans</b></p> <hr/>    |
| <p>f) Find the number of loans approved by the bank, that fell in either of the two categories - auto loans or mortgages.</p> | <p><b>17 loans</b></p> <hr/>             |
| <p>g) How many customers got at least 2 of the 3 loans/mortgage cleared by the community bank?</p>                            | <p><b>6 customers</b></p> <hr/>          |
| <p>h) List the number of customers that received approvals for either a mortgage or a business loan.</p>                      | <p><b>15 customers</b></p> <hr/>         |