

Drawing Venn Diagram - With Universal Set

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

- 1) A car dealership received customer complaints with regard to the 2017 model of a particular luxury car brand. The complaints included defective frontal air bags, seat belt defects and faulty side marker lights.
 - 43 complaints received were with regard to defective frontal air bags;
 - 27 complaints registered were in connection with seat belt defects;
 - 26 complaints made were in connection with faulty side marker lights;
 - 10 complaints were registered for both defective air bags and seat belts but not for side marker lights;
 - 2 customers complained of seat belt defects and faulty side marker lights but not for air bags;
 - 7 complaints included both defective air bags and faulty side marker lights but not for seat belts;
 - 3 customers registered complaints for all three problems; and
 - 4 customers registered complaints with regard to premature brake failure.

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- a) How many customers registered complaints about only defective frontal air bags? _____
- b) Find the number of customers who registered complaints about at least two of the three problems. _____
- c) How many customers registered complaints about only faulty side marker lights? _____
- d) Write down the number of customers who registered complaints about only defective frontal air bags or defective seat belts. _____
- e) How many customers registered complaints about only defective seat belts? _____
- f) Find the number of complaints made with regard to either defective frontal air bags or faulty side marker lights. _____
- g) How many customers made complaints for neither defective frontal air bags nor defective seat belts? _____
- h) Find the number of complaints that were made for neither faulty side marker lights nor for defective seat belts. _____

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| a) How many customers registered complaints about defective frontal air bags? | 23 customers |
| b) Find the number of customers who registered complaints about at least two of the three problems. | 22 complaints |
| c) How many complaints were registered about faulty side marker lights? | 14 complaints |
| d) Write down the number of complaints registered about defective frontal air bags or defective seat belts. | 57 complaints |
| e) How many customers registered complaints about only defective seat belts? | 12 customers |
| f) Find the number of complaints made with regard to either defective frontal air bags or faulty side marker lights. | 59 complaints |
| g) How many customers made complaints for neither defective frontal air bags nor defective seat belts? | 18 customers |
| h) Find the number of complaints that were made for neither faulty side marker lights nor for defective seat belts. | 27 complaints |