

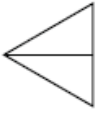
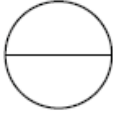
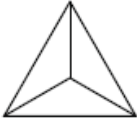
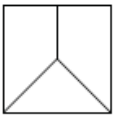

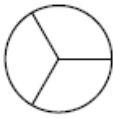
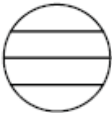

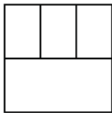



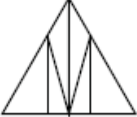


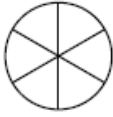
Q. 1. Do as directed:

A. Determine which choice(s) show the shape partitioned so each piece has equal area. If none, write 'none'.




1) a.  b.  c.  d. 

2) a.  b.  c.  d. 

3) a.  b.  c.  d. 

4) a.  b.  c.  d. 

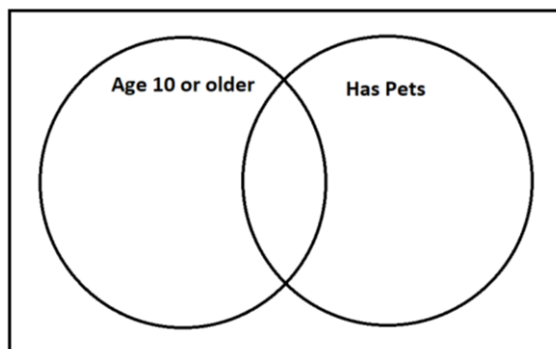
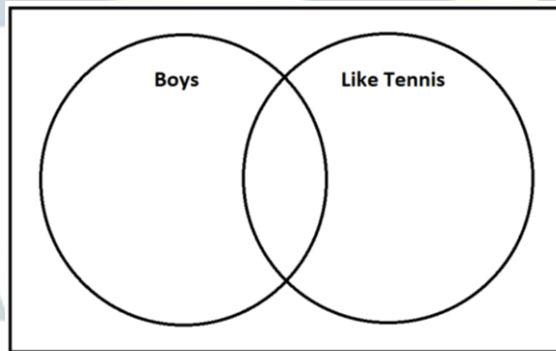
B. Fill in the following table.

Shape	Name	Number of Sides	Number of Vertices
	Triangle		
	Square		
	Rectangle		

	Trapezoid		
	Parallelogram		
	Pentagon		
	Hexagon		

C. Use the information in the table to fill in both Venn diagrams:

Name	Dan	Anna	Seb	Rosie	Jamie	Megan
Boy / Girl	Boy	Girl	Boy	Girl	Boy	Girl
Age	11	9	12	8	10	9
Likes Tennis	Yes	No	Yes	Yes	No	No
Has Pets	No	Yes	Yes	No	No	Yes



Q. 2. Mental Maths:

A. Read and answer each question.

There are 33 books on a bookshelf. 11 of the books are paperback and the rest of them are hardcover.

- a) What fraction of the books are hardcover?
- b) If $20 / 33$ of the books are fictions and the rest are non-fiction, how many books are non-fiction?
- c) If $10 / 20$ of the fiction books are science fiction and $5 / 20$ are historical fiction, are there more science fiction or historical fiction?
- d) There are only three kinds of fiction on the shelf: science fiction, history fiction and classics. How many classics are there?
- e) If 2 of the science fictions are taken away, what is the fraction of the science fictions that is left behind?

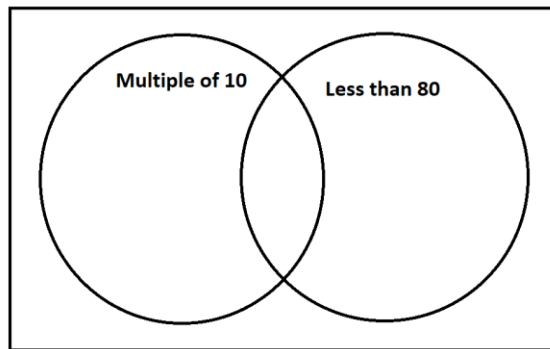
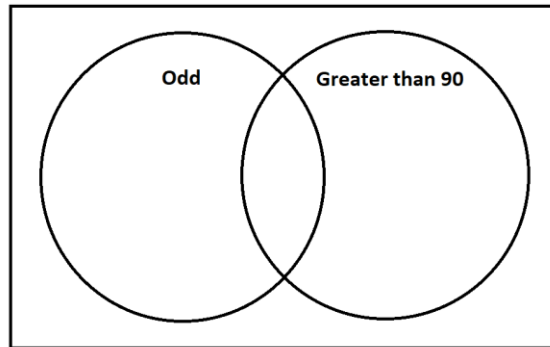
B. Determine the starting time for each problem.

- a) Maria spent 1 hour and 10 minutes cleaning her room. If she finished at 2:10, what time did she start cleaning?
- b) Victor's father spent 3 hours and 50 minutes working on his truck. If it was 6:50 when he stopped working, what time was it when he originally started?
- c) Katie was helping her mom cook dinner. If they finished at 6:25 and had spent 2 hours and 15 minutes cooking, what time did they start?
- d) Amy finished watching TV at 4:05. If she had been watching it for 2 hours and 15 minutes, what time was it when she started?
- e) Roger spent 2 hours and 5 minutes outside cleaning up his yard. If it was 4:05 when he finished, what time did Roger start cleaning his yard?

C. Put the 8 numbers in the correct places in both Venn diagrams.

58	70	114	127	35	110	27	30
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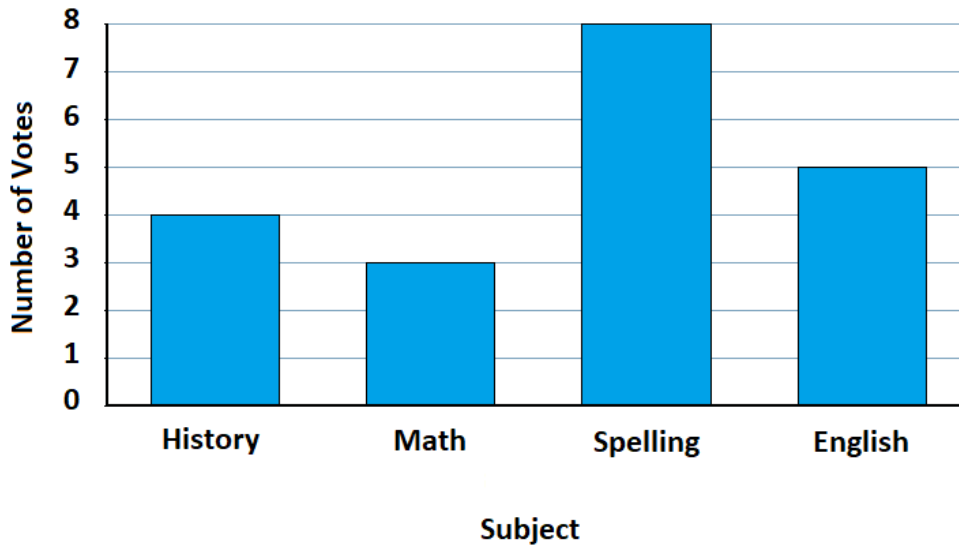
Choose three of your own numbers and add them into each of the Venn diagrams in the correct place.

**Q. 3. Logical:**

A. Determine the elapsed time for each problem.

- a) Bianca went to the movies at 3:25. If the movie was over at 5:45, how long did the movie last?
- b) Vanessa finished cleaning her room at 5:55. If she had started cleaning it at 3:30, how long did it take her to clean her room?
- c) Paige finished washing clothes at 5:00. If she had started at 1:20, how long would she have spent washing clothes?
- d) Tiffany's parents left to go shopping at 1:35. If they got back home at 3:55, how long were they gone?
- e) Zoe drove to her aunt's house, arriving at 9:30. If Zoe started her drive at 6:55, how long did the drive take?

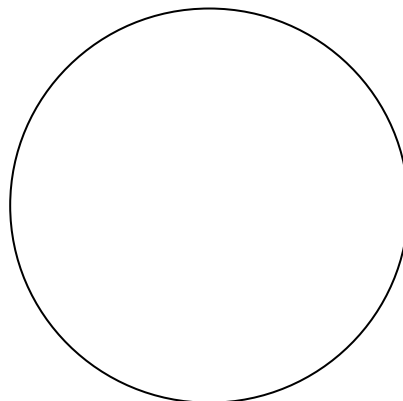
B. The Principal of a school held a vote to figure out which subject students liked the best. He record his information in the bar graph below. Use his graph to answer the questions.



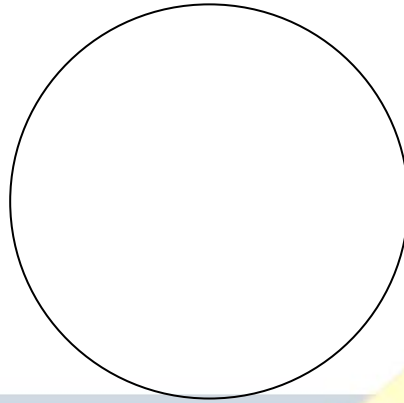
- How many students voted for Math? _____
- Did more students vote for History or for Math? _____
- Which subject received exactly 3 votes? _____
- What is the difference in the number of students who voted for English and the number who voted for Math? _____
- What is the combined number of students who voted for English and who voted for Spelling? _____
- Which subject got the most votes? _____
- Which subject got the fewest votes? _____
- How many more votes did English receive than History? _____
- How many fewer votes did English receive than Spelling? _____
- Did fewer students vote for Math or for English? _____

Q. 4. Reasoning:

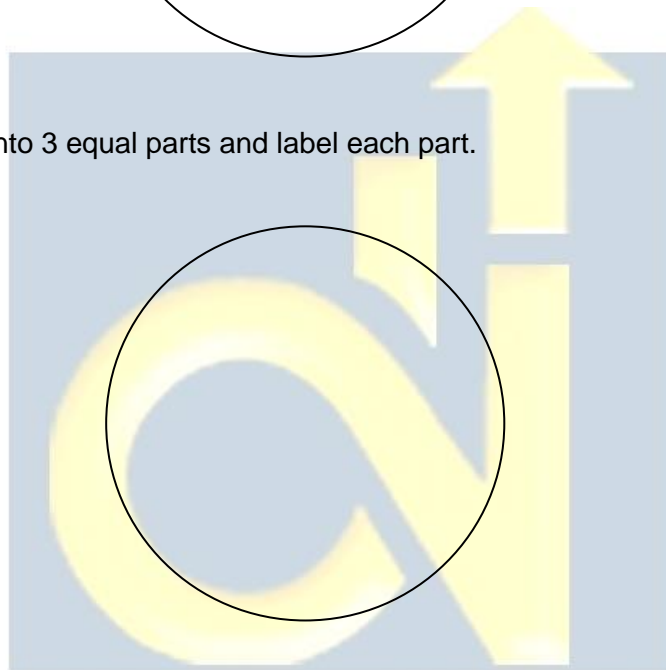
- Partition and label each shape.
 - Split the shape into 8 equal parts and label each part.



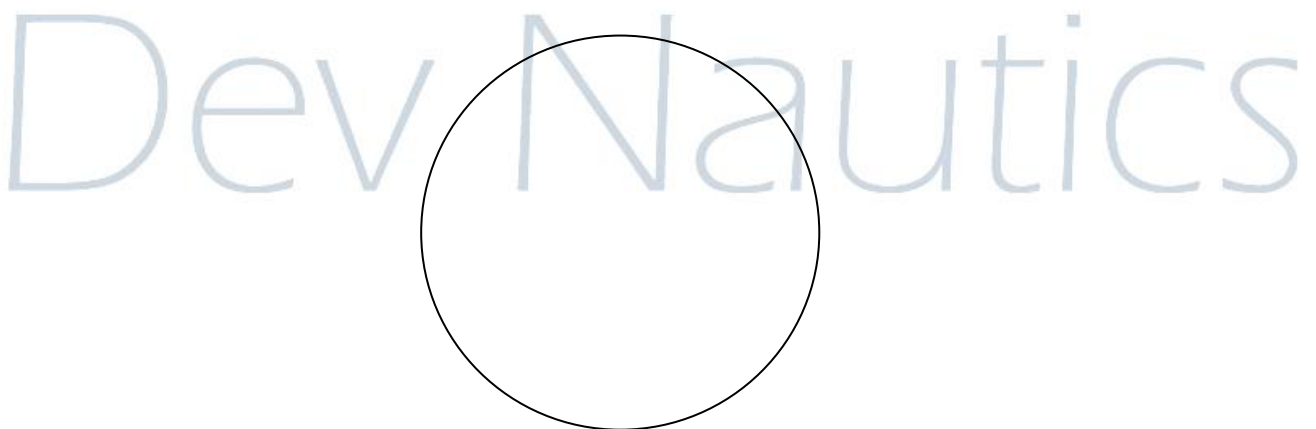
b) Split the shape into 4 equal parts and label each part.



c) Split the shape into 3 equal parts and label each part.








d) Split the shape into 6 equal parts and label each part.



- B. Debby and her friends were comparing the amount of candy they received on Halloween. They recorded their information in the pictograph below.

Candy Haul

Debby	
Maria	
Rachel	
Carol	
Katie	

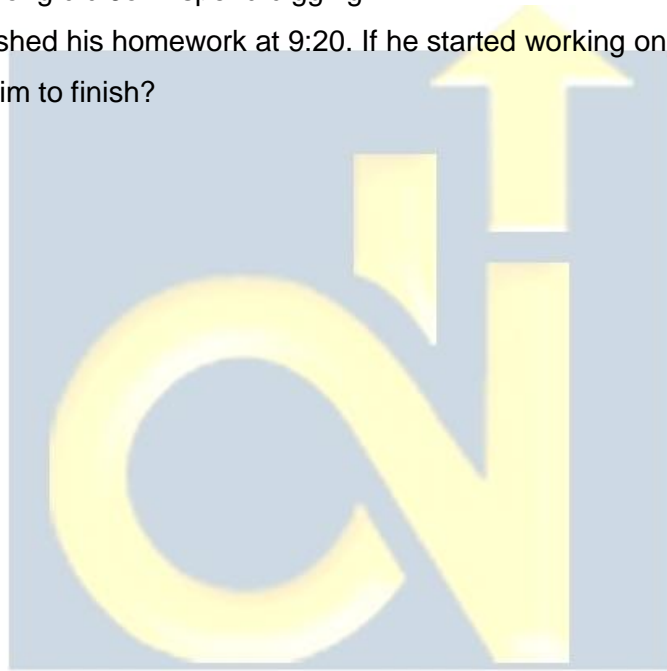


= 4 kilograms of candy

- Who got the most candy?
 - Who got the least amount of candy?
 - Who got more candy, Maria or Carol?
 - How many kilograms of candy did Maria get?
 - How many kilograms of candy did Rachel get?
- C. Determine the starting time for each problem.
- Tom took a nap for 2 hours and 15 minutes. If he woke up at 3:45, what time was it when he started his nap?
 - Edward spent 2 hours and 50 minutes playing video games. If he stopped to eat dinner at 8:25, what time did he originally start playing?
 - Paige's parents got back from shopping at 7:35. If they had been gone for 2 hours and 25 minutes, what time did they originally leave?
 - Vanessa spent 1 hour and 50 minutes cleaning her room. If it was 3:45 when she finished, what time was it when she started?
 - Mike was invited to a birthday party that ended at 6:55. If it lasted 3 hours and 25 minutes what time did the party start?

D. Determine the elapsed time for each problem.

- a) Mike started exercising at 6:40. If he stopped at 10:10, how long did he spend exercising?
- b) Luke started reading a book at 5:30. If he finished it at 7:25, how long did he spend reading?
- c) Billy started cleaning up his yard at 2:45. If he finally finished at 3:50, how long did Billy spend cleaning his yard?
- d) John started digging a hole at 4:50. When he finished at 6:10 it was already 4 feet deep. How long did John spend digging?
- e) Edward finished his homework at 9:20. If he started working on it at 6:10, how long did it take him to finish?



Dev Nautics