

Quiz: Using Venn Diagrams

- 1 The 140 students scored above 50% on Math, 165 students scored above 50% on Science, and 25 students scored above 50% on both Math and Science. How many students scored above 50% either on math or on science?

- 2 There are 42 kids in all, 12 didn't like dogs or cats, 24 liked cats and 30 like dogs. How many love both?

- 3 Out of 78 students, 34 are taking English Composition and 27 are taking Chemistry. If 7 students are in both classes, how many students are in neither class?

- 4 A veterinarian surveys 110 of his patrons. He discovers that 46 have dogs, 52 have cats and 10 have both. How many patrons have none of these pets?

- 5 A guidance counselor is planning schedules for 45 students. 18 students say they want to take Spanish, 22 want to take French, and 20 want to take Latin. 5 say they want to take both French and Latin, and of these, 1 wanted to take Spanish as well. 11 want only Latin, and 8 want only Spanish. How many students want French only?

- 6 A survey of 68 college students reveals that 46 have a profile on MySpace, and 38 have a profile on Facebook. How many students don't have a profile on Facebook?

- 7 Ken likes to snack. On a recent trip to the candy store she bought some "mix and match" candy. She has 12 pieces of candy in all. 2 contain caramel; 8 contain coconut; and 2 contain both caramel and coconut. How many of the candies contain neither caramel nor coconut?

- 8 258 people were asked if they knew who any of the following are: Loki, Hermes, and Ra. 8 people did not know any of these, 10 people knew all three, 141 people knew who Hermes or Ra were but did not know who Loki was, 111 people knew who Ra was, 72 people knew who at least two of these were, 18 people knew who Loki and Ra were but did not know who Hermes was and 33 people knew who Loki and Hermes were. How many people knew only Ra?

- 9 A study was made of 20 rivers to determine what pollutants were in them. 2 rivers were clean, 8 rivers were polluted with crude oil and 11 rivers were polluted with phosphates. How many rivers were polluted with only phosphates?

- 10 In a school of 200 students, 82 students are in the band, 94 students are on sports teams, and 30 students participate in both activities. How many students are involved in either band or sports?

Circle # Correct	0	1	2	3	4	5	6	7	8	9	10
Percentage Score	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%