Probability
Answer Sheet

Probability and Covid-19

1. $\frac{1}{40} = 0.025$

2. $\frac{8}{40} = 0.2$

3. $\frac{31}{40} = 0.775$

4. $\frac{39}{40} = 0.975$

5. $\frac{32}{40} = 0.8$

6. $\frac{9}{40} = 0.225$

7. $\frac{1396}{3246} \approx 0.430$

8. $\frac{909}{3246} \approx 0.280$

9. $\frac{552}{3246} \approx 0.170$

10. $\frac{357}{3246} \approx 0.110$

11. $\frac{10}{3246} \approx 0.003$

12. $\frac{22}{3246} \approx 0.007$

13. $\frac{1850}{3246} \approx 0.570$

14. $\frac{2337}{3246} \approx 0.720$

15. $\frac{2694}{3246} \approx 0.830$

16. $\frac{2889}{3246} \approx 0.890$

17. $\frac{3236}{3246} \approx 0.997$

18. $\frac{1396}{3246} + \frac{357}{3246} - \frac{0}{3246} = \frac{1753}{3246} \approx 0.540$

19. $\frac{909}{3246} + \frac{552}{3246} - \frac{0}{3246} = \frac{1461}{3246} \approx 0.450$

20. $\frac{552}{3246} + \frac{10}{3246} - \frac{0}{3246} = \frac{562}{3246} \approx 0.173$

21. $\frac{41}{483} \approx 0.085$

22. $\frac{174}{483} \approx 0.360$

23. $\frac{268}{483} \approx 0.555$

24. $\frac{382}{483} \approx 0.791$

25. $\frac{101}{483} \approx 0.209$

26. $\frac{41+268}{483} = \frac{309}{483} \approx 0.640$

27. $\frac{483-174}{483} = \frac{309}{483} \approx 0.640$

28. $\frac{30}{483} \approx 0.062$

29. $\frac{41}{483} + \frac{382}{483} - \frac{30}{483} = \frac{393}{483} \approx 0.814$

30. $\frac{36}{483} \approx 0.075$

31. $\frac{174}{483} + \frac{101}{483} - \frac{36}{483} = \frac{239}{483} \approx 0.511$

32. $\frac{141}{261} \approx 0.540$

33. $\frac{120}{261} \approx 0.460$

34. $\frac{205}{261} \approx 0.785$

35. $\frac{56}{261} \approx 0.215$

36. $\frac{141}{261} + \frac{120}{261} - \frac{0}{261} = \frac{261}{261} = 1$

37. $\frac{0}{261} = 0$

38. $\frac{110}{261} \approx 0.421$

39. $\frac{141}{261} + \frac{205}{261} - \frac{110}{261} = \frac{236}{261} \approx 0.904$

40. $\frac{95}{261} \approx 0.364$

41. $\frac{120}{261} + \frac{205}{261} - \frac{95}{261} = \frac{230}{261} \approx 0.881$

42. $\frac{31}{261} \approx 0.119$

43. $\frac{141}{261} + \frac{56}{261} - \frac{31}{261} = \frac{166}{261} \approx 0.636$

44. $\frac{25}{261} \approx 0.096$

45. $\frac{120}{261} + \frac{56}{261} - \frac{25}{261} = \frac{151}{261} \approx 0.579$

46. $\frac{163}{578} \approx 0.282$

47. $\frac{158}{578} \approx 0.273$

48. $\frac{442}{578} \approx 0.765$

49. $\frac{136}{578} \approx 0.235$

50. $\frac{119}{578} + \frac{136}{578} - \frac{25}{578} = \frac{230}{578} \approx 0.398$

51. $\frac{163}{578} + \frac{136}{578} - \frac{30}{578} = \frac{269}{578} \approx 0.465$

52. $\dfrac{158}{578} + \dfrac{442}{578} - \dfrac{112}{578} = \dfrac{488}{578} \approx 0.844$

53. $\dfrac{138}{578} + \dfrac{442}{578} - \dfrac{103}{578} = \dfrac{477}{578} \approx 0.825$

54. $\dfrac{119}{578} + \dfrac{136}{578} - \dfrac{25}{578} = \dfrac{230}{578} \approx 0.398$

55. $\dfrac{163}{578} + \dfrac{136}{578} - \dfrac{30}{578} = \dfrac{269}{578} \approx 0.465$

56. $\dfrac{158}{578} + \dfrac{442}{578} - \dfrac{112}{578} = \dfrac{488}{578} \approx 0.844$

57. $\dfrac{138}{578} + \dfrac{442}{578} - \dfrac{103}{578} = \dfrac{477}{578} \approx 0.825$

58. $\dfrac{166}{398} \approx 0.417$

59. $\dfrac{127}{398} \approx 0.319$

60. $\dfrac{105}{398} \approx 0.264$

61. $\dfrac{307}{398} \approx 0.771$

62. $\dfrac{91}{398} \approx 0.229$

63. $\dfrac{127}{398} + \dfrac{307}{398} - \dfrac{97}{398} = \dfrac{337}{398} \approx 0.845$

64. $\dfrac{127}{398} + \dfrac{91}{398} - \dfrac{30}{398} = \dfrac{188}{398} \approx 0.472$