PROBABILITY SCALE

Answer all of these questions. Remember to show your working out in all questions.

MAIN QUESTIONS

1. Place these probabilities in order from least to most likely: 0.5, 0.1, 0.9, 0.01

2. Convert 1/2 to a decimal probability

3. Convert 0.75 to a fraction in simplest form

4. Convert 3/5 to a decimal probability

5. Convert 0.2 to a fraction in simplest form

6. Place these probabilities in order from least to most likely: 0.3, 0.03, 0.33, 0.033

7. Convert 7/10 to a decimal probability

8. Convert 0.125 to a fraction in simplest form

9. Convert 4/5 to a decimal probability

10. Convert 0.6 to a fraction in simplest form

11. Place these probabilities in order from least to most likely: 0.25, 0.5, 0.05, 0.75

12. Convert 1/4 to a decimal probability

13. Convert 0.875 to a fraction in simplest form

14. Convert 2/3 to a decimal probability (round to 2 decimal places)

15. Convert 0.4 to a fraction in simplest form

16. Place these probabilities in order from least to most likely: 0.99, 0.09, 0.9, 0.999

| 17. | Convert 5/8 to a decimal probability | 18. | Convert 0.375 to a fraction in simplest form |
| 19. | Convert 9/10 to a decimal probability | 20. | Convert 0.16 to a fraction in simplest form |

MASTER QUESTIONS

M1. A bag contains 4 red, 3 blue, and 5 green marbles. What is the probability of drawing a red marble?

M2. A fair six-sided die is rolled. What is the probability of rolling a prime number?

M3. A spinner has 8 equal sections numbered 1 to 8. What is the probability of landing on an even number?

M4. A deck of 52 cards is shuffled. What is the probability of drawing a heart or a king?

M5. A class has 12 boys and 18 girls. If a student is chosen at random, what is the probability they are a girl?

M6. A bag contains 6 white balls and 4 black balls. Two balls are drawn without replacement. What is the probability both are white?

M7. A fair coin is flipped three times. What is the probability of getting exactly two heads?

M8. A box contains 5 red, 4 blue and 6 green pencils. If one pencil is taken at random, what is the probability it is not green?

M9. Two fair dice are rolled. What is the probability the sum is 7?

M10. A lottery has 100 tickets, 10 of which are winners. If you buy 5 tickets, what is the probability at least one is a winner?