

320 GRE Math Problems Arranged By Topic And Difficulty Level

Arithmetic

Easy

1. $1 + 1 = ?$

2. $2 - 1 = ?$

3. $3 * 3 = ?$

4. $4 / 2 = ?$

5. $5 + 5 = ?$

Medium

6. $6 - 3 = ?$

7. $7 * 4 = ?$

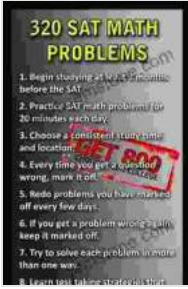
8. $8 / 4 = ?$

9. $9 + 9 = ?$

10. $10 - 5 = ?$

Hard

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★★★★☆ 4.8 out of 5

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11. $11 * 11 = ?$

12. $12 / 6 = ?$

13. $13 + 13 = ?$

14. $14 - 7 = ?$

15. $15 * 15 = ?$

Algebra

Easy

16. $x + 1 = 5$

17. $x - 2 = 3$

18. $3x = 12$

19. $x/4 = 2$

20. $2x + 1 = 7$

Medium

21. $3x - 2 = 11$

22. $x/5 + 1 = 4$

23. $4x - 3 = 13$

24. $x/6 + 2 = 5$

25. $5x + 2 = 17$

Hard

26. $6x - 5 = 23$

27. $x/7 + 3 = 6$

28. $7x - 4 = 25$

29. $x/8 + 4 = 7$

30. $8x + 3 = 29$

Geometry

Easy

31. What is the area of a square with a side length of 5?

32. What is the perimeter of a rectangle with a length of 6 and a width of 4?

33. What is the volume of a cube with a side length of 3?

34. What is the surface area of a sphere with a radius of 2?

35. What is the diameter of a circle with a circumference of 10?

Medium

36. What is the area of a triangle with a base of 8 and a height of 6?
37. What is the perimeter of a trapezoid with bases of 10 and 12 and a height of 5?
38. What is the volume of a cone with a radius of 4 and a height of 8?
39. What is the surface area of a cylinder with a radius of 3 and a height of 4?
40. What is the diameter of a sphere with a volume of 36?

Hard

41. What is the area of a regular hexagon with a side length of 6?
42. What is the perimeter of a regular octagon?
43. What is the volume of a pyramid with a square base of 6 and a height of 10?
44. What is the surface area of a sphere with a diameter of 10?
45. What is the diameter of a circle inscribed in a square with a side length of 8?

Probability

Easy

46. What is the probability of rolling a 6 on a standard six-sided die?
47. What is the probability of drawing a red card from a deck of 52 cards?
48. What is the probability of flipping a coin and getting heads?

49. What is the probability of rolling a 7 or 11 on a standard pair of dice?
50. What is the probability of drawing a queen or a king from a deck of 52 cards?

Medium

51. What is the probability of drawing two aces from a deck of 52 cards without replacement?
52. What is the probability of rolling a sum of 10 on a standard pair of dice?
53. What is the probability of flipping a coin three times and getting heads each time?
54. What is the probability of drawing a face card (jack, queen, or king) from a deck of 52 cards?
55. What is the probability of rolling a number greater than 4 on a standard six-sided die?

Hard

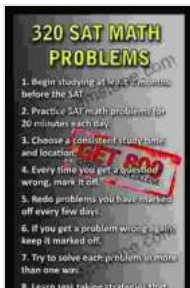
56. What is the probability of drawing a red card or a black face card from a deck of 52 cards?
57. What is the probability of rolling a sum of 7 or 11 on a standard pair of dice twice in a row?
58. What is the probability of flipping a coin four times and getting heads exactly twice?

59. What is the probability of drawing two aces and a king from a deck of 52 cards without replacement?
60. What is the probability of rolling a number greater than 3 on a standard six-sided die three times in a row?

Statistics

Easy

61. What is the mean of the following data set: {1, 2, 3, 4, 5}?
62. What is the median of the following data set: {2, 4, 6, 8, 10}?
63. What is the mode of the following data set: {1, 2, 3, 3, 4}?
64. What is the range of the following data set: {0, 5, 10, 1



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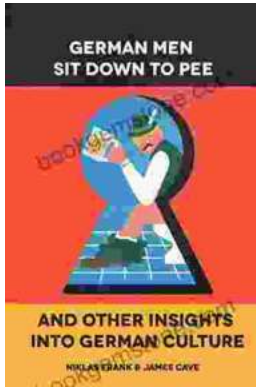
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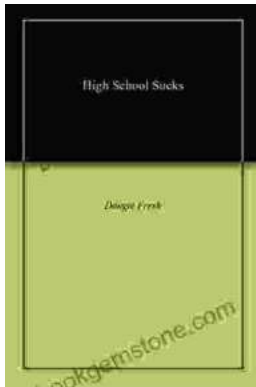
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