ОТВЕТЫ

**1-4**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 |
| В1 | 2457 | 4 | 48 | 6 |
| В2 | 1375 | 13 | 12 | 0,8 |
| В3 | 2763 | 17142 | 6,44 | 440 |
| В4 | 7521 | 352 | 2700 | 300 |
| В5 | 6341 | 18 | 84 | 40 |
| В6 | 3615 | 68 | 675 | 25 |
| В7 | 8437 | 3,2 | 48 | 20 |
| В8 | 1327 | 43 | 184 | 3 |
| В9 | 5426 | 3 | 248 | 40 |
| В10 | 3214 | 29 | 120 | 11 |

**5 выбор варианта из двух возможных**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Вариант | 1 | 2 | 3 | 4 | 5 |
| ответ | 1092 | 5820 | 420 | 16470 | 3996 |

**5 выбор варианта из трех возможных**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Вариант | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| ответ | 10250,64 | 479700 | 1840 | 8280 | 700 | 4180 | 311 | 178200 | 202500 |

**5 выбор варианта из двух возможных**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Вариант | 1 | 2 | 3 | 4 | 5 |
| ответ | 1020 | 32 | 75 | -46 | 1 |

**6 сравнение чисел**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Задание | 1 | 2 | 3 | 4 | 5 |
| В1 | 3 | 23 | 132|1,3,2 | 3 | 4312 |
| В2 | 4 | 3 | 4 | 3 | 3 |
| В3 | 1 | 14 | 1 | 13 | 3 |
| В4 | 4312 | 4 | 32 | 2 | 3 |

**6 обыкновенные дроби**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 | 5 |
| В1 | -2 | 3,91 | -0,3 | 31,6 | 0,2 |
| В2 | 2,18 | 0,8 | 1,35 | 79,2 | 3,75 |
| В3 | 79,2 | 3,75 | 0,44 | 0,95 | 126 |
| В4 | 31,6 | 0,2 | 2,18 | 0,8 | 1,35 |

6 **десятичные дроби**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Задание | 1 | 2 | 3 | 4 | 5 |
| В1 | 1,6 | 2,25 | 1 | 55 | 3,2 |
| В2 | 12,5 | -50 | 4,4 | 270 | 34,3 |
| В3 | 270 | 34,3 | 1,6 | 2,25 | 1 |
| В4 | 1 | 55 | 3,2 | 12,5 | -50 |

**6 степени**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 | 5 |
| В1 | -550 | -820 | 14 | 24 | 0,3105 |
| В2 | 81 | -320 | -30 | 35 | -15 |
| В3 | 105 | -380 | -550 | -820 | 0,5604 |
| В4 | -3,86 | -3786,7 | 3328 | 0,000196 | 0,0000335 |

**7 выбор утверждения**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Задание | 1 | 2 | 3 | 4 | 5 |
| В1 | 4 | 2 | 4 | 3 | 3 |
| В2 | 1 | 4 | 3 | 3 | 3 |
| В3 | 2 | 2 | 3 | 4 | 3 |
| В4 | 1 | 3 | 4 | 2 | 4 |

**7 неравенства**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Задание | 1 | 2 | 3 | 4 | 5 |
| В1 | 3 | 3 | 2 | 4 | 3 |
| В2 | 3 | 2 | 3 | 1 | 4 |
| В3 | 1 | 4 | 1 | 2 | 1 |
| В4 | 4 | 4 | 3 | 1 | 4 |

**7сравнение чисел**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Задание | 1 | 2 | 3 | 4 | 5 |
| В1 | 0,0066 | 2 | 3 | 1 | 1 |
| В2 | 1 | 2 | 4 | 1 | 4 |
| В3 | 3 | 2 | 4 | 1 | 1 |
| В4 | 1 | 4 | 3 | 2 | 4 |

**7 числа на прямой**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Задание | 1 | 2 | 3 | 4 | 5 |
| В1 | 2 | 3 | 2 | 4 | 3 |
| В2 | 2 | 1 | 1 | 2 | 3 |
| В3 | 1 | 3 | 2 | 1 | 1 |
| В4 | 2 | 3 | 4 | 3 | 4 |

**8 вычисления**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Задание | 1 | 2 | 3 | 4 | 5 |
| В1 | 1 | 4 | 220 | 1 | 3 |
| В2 | 1 | 4 | 4 | 4 | 3 |
| В3 | 2 | 2 | 2 | 1951,1 | 1 |
| В4 | 2 | 1951,1 | 220 | 1 | 3 |

**8 числа**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Задания | 1 | 2 | 3 | 4 | 5 |
| В1 | 1 | 4 | 2 | 2 | 1 |
| В2 | 2 | 3 | 1 | 3 | 4 |
| В3 | 2 | 1 | 1 | 4 | 2 |
| В4 | 1 | 3 | 2 | 3 | 2 |

**8 числовые выражения**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Задание | 1 | 2 | 3 | 4 | 5 |
| В1 | 1 | 1 | 2 | 3 | 2 |
| В2 | 0,000064 | 4 | 1 | 4 | 1 |
| В3 | 2 | 1 | 2 | 1 | 3 |
| В4 | 4 | 1 | 2 | 2 | 1 |

**9 квадратные уравнения**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 | 5 |
| В1 | -23 | -41 | -24 | -0,20,2 | 05 |
| В2 | -9,7 | 2,25 | -2,5 | 06 | -35 |
| В3 | -92 | 14 | -24 | 3 | 05 |
| В4 | -35 | -3,6-2 | -0,20,2 | -92 | 14 |

**9 линейные уравнения**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 | 5 |
| В1 | : -4,5 | : -1,6 | -1 | -3 | 4 |
| В2 | 2 | 9,7 | 1 | 7 | 1,5 |
| В3 | -2,5 | -6 | -1,75 | 0,66 | 5 |
| В4 | -3 | 4 | 1 | 7 | 5 |

**9 рациональные уравнения**

|  |  |  |  |
| --- | --- | --- | --- |
| задание | 1 | 2 | 3 |
| В1 | : 22 | -20 | 6,3 |
| В2 | 36 | 4 | -32 |
| В3 | 16 | -4 | -1,25 |
| В4 | 4 | 14 | 8 |

**9 системы неравенств**

|  |  |
| --- | --- |
| Вариант |  |
| 1 | Ответ: -3 |
| 2 | Ответ: -3 |
| 3 | Ответ: -5 |
| 4 | Ответ: -4 |
| 5 | Ответ: -2 |
| 6 | Ответ: -6 |

**9 системы уравнений**

|  |  |
| --- | --- |
| вариант | ответ |
| 1 | Ответ: 3,5 |
| 2 | Ответ: 5 |
| 3 | Ответ: 3 |
| 4 | Ответ: -1 |
| 5 | Ответ: 5 |
| 6 | Ответ: 1 |

**10 классическая вероятность**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 | 5 |
| В1 | 0,88 | 0,2 | 0,85 | 0,25 | 0,2 |
| В2 | 0,9 | 0,5 | 0,75 | 0,6 | 0,05 |
| В3 | 0,18 | 0,9 | 0,013 | 0,94 | 0,75 |
| В4 | 0,25 | 0,3 | 0,2 | 0,25 | 0,55 |

**10 статистика, теоремы**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 | 5 |
| В1 | 10 | 0,9604 | 3 | 0,011 | 0,81 |
| В2 | 0.063 | 0,008 | 0,04 | 0,78 | 0.096 |
| В3 | 0,0625 | 0,7 | 0,25 | 0,9409 | 0.00128 |
| В4 | 4 | 0,023 | 0,003 | 0,86 | 0.147 |

**11 растяжение и сдвиги**

|  |  |  |  |
| --- | --- | --- | --- |
| задание | 1 | 2 | 3 |
| В1 | 431 | 3 | 3 |
| В2 | 314 | 1 | 4 |
| В3 | 243 | 3 | 4 |
| В4 | 314 | 1 | 4 |

**11 чтение графиков**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 |
| В1 | 2 | 4 | 2 | 3 |
| В2 | 3 | 9 | 3 | 4 |
| В3 | 4 | 3 | 12 | 1 |
| В4 | 3 | -1 | 13 | 1 |

**12 вычисления по формуле**

|  |  |  |  |
| --- | --- | --- | --- |
| задание | 1 | 2 | 3 |
| В1 | Ответ: 183 | Ответ: 60 | Ответ: 5 |
| В2 | Ответ: 5 | Ответ: 1,28 | Ответ: 260 |
| В3 | Ответ: 1,28 | Ответ: 3 | Ответ: 238 |
| В4 | Ответ: 0,6 | Ответ: 260 | Ответ: 50500 |

**12 линейные уравнения**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Задание | 1 | 2 | 3 | 4 |
| В1 | Ответ: 13 | Ответ: 3,2 | Ответ: 0,4 | Ответ: 5 |
| В2 | Ответ: 8 | Ответ: 0,004 | Ответ: 8 | Ответ: -14,4 |
| В3 | Ответ: 8 | Ответ: 5 | Ответ: 9 | Ответ: 400 |
| В4 | Ответ: 6 | Ответ: 4 | Ответ: 4000 | Ответ: 4 |

**12 разные задания**

|  |  |  |  |
| --- | --- | --- | --- |
| задание | 1 | 2 | 3 |
| В1 | 12,25 | 2,25 | 6,25 |
| В2 | 20,25 | 100 | 16 |
| В3 | 72,25 | 9 | 4 |
| В4 | 36 | 12 | 56,25 |
|  |  |  |  |

**13 квадратные неравенства**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Задание | 1 | 2 | 3 | 4 | 5 |
| В1 | 1 | 4 | 3 | 1 | 3 |
| В2 | 1 | 2 | 2 | 2 | 4 |
| В3 | 1 | 3 | 4 | 2 | 4 |
| В4 | 2 | 2 | 3 | 1 | 4 |

**13 линейные неравенства**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 | 5 |
| В1 | 4 | 3 | 1 | 1 | 4 |
| В2 | 2 | 4 | 4 | 3 | 2 |
| В3 | 2 | 4 | 1 | 4 | 3 |
| В4 | 2 | 4 | 4 | 1 | 1 |

**13 системы неравенств**

|  |  |  |  |
| --- | --- | --- | --- |
| задание | 1 | 2 | 3 |
| В1 | 2 | -3 | 1 |
| В2 | 3 | 4 | 2 |
| В3 | 2 | 3 | 3 |
| В4 | 2 | 3 | 3 |

**14 арифметическая прогрессия**

|  |  |  |  |
| --- | --- | --- | --- |
| задание | 1 | 2 | 3 |
| В1 | 50 | 23 | -1 |
| В2 | 75 | 54 | -2 |
| В3 | -399 | 28,7 | 9 |
| В4 | 467 | -30,4 | 15 |

**14 геометрическая прогрессия**

|  |  |  |  |
| --- | --- | --- | --- |
| Задание | 1 | 2 | 3 |
| В1 | -1976 | -16800 | 30 |
| В2 | -171,5 | 1875 | -15 |
| В3 | 12 | 19200 | 126 |
| В4 | -54 | 153,75 | 63 |

**14 последовательности**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 | 5 |
| В1 | 4 | 2 | 3 | -11 | 7 |
| В2 | 2 | 2 | 1 | -22 | 10 |
| В3 | 3 | 2 | 1 | -9 | 18 |
| В4 | 3 | 1 | 2 | -24 | 35 |

**15 многоугольники**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 | 5 |
| В1 | 132 | 78 | 9 | 83 | 81 |
| В2 | 44 | 37 | 118 | 168 | 162 |
| В3 | 50 | 135 | 10 | 76 | 144 |
| В4 | 26 | 107 | 59 | 85 | 64 |

**15 прямоугольный треугольник**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 |
| В1 | 20 | 10 | 50 | 0,25 |
| В2 | 33 | 40 | 81 | 6 |
| В3 | 21 | 8 | 60 | 16 |
| В4 | 20 | 18 | 50 | 20 |

**15 равнобедренный треугольник**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 |
| В1 | 120 | 13 | 60 | 66 |
| В2 | 672 | 112 | 9 | 90 |
| В3 | 45 | 48 | 18 | 15 |
| В4 | 28 | 24 | 26 | 100 |

**15 параллелограмм**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **задание** | **1** | **2** | **3** | **4** |
| В1 | 65 | 70 | 81,5 | 30 |
| В2 | 60 | 105 | 58,5 | 62 |
| В3 | 122 | 65 | 66 | 34,5 |
| В4 | 45 | 45 | 38 | 26 |

**15 ромб**

|  |  |  |  |
| --- | --- | --- | --- |
| Задание | 1 | 2 | 3 |
| В1 | 1717 | 3 | 60 |
| В2 | 1818 | 5 | 60 |
| В3 | 1515 | 4 | 120 |
| В4 | 1616 | 3 | 120 |

**15 трапеция**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 | 5 |
| В1 | 129 | 1 | 6 | 70 | 17 |
| В2 | 157 | 34 | 6,5 | 120 | 5 |
| В3 | 91 | 52 | 10 | 45 | 13 |
| В4 | 133 | 21 | 8,5 | 115 | 4 |

**15 треугольники общего вида**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 |
| В1 | 63 | 27 | 32 | 49 |
| В2 | 8 | 62 | 0,5 | 18 |
| В3 | 19 | 53 | 18 | 63 |
| В4 | 8 | 140 | 35 | 55 |

**15 углы**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 |
| В1 | 117 | 40 | 86 | 36 |
| В2 | 105 | 24 | 64 | 40 |
| В3 | 50 | 79 | 66 | 31 |
| В4 | 40 | 80 | 118 | 64 |

**16 касательная, хорда, секущая**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 |
| В1 | 6 | 148 | 20 | 9 |
| В2 | 12 | 104 | 15 | 10 |
| В3 | 16 | 20 | 11 | 10 |
| В4 | 14 | 110 | 19 | 25 |

**16 окружность описанная около треугольника**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 |
| В1 | 10 | 196 | 90 | 21 |
| В2 | 6 | 100 | 22,5 | 25 |
| В3 | 8 | 256 | 114 | 35 |
| В4 | 12 | 144 | 158 | 12 |

**16 центральные и вписанные углы**

|  |  |  |  |
| --- | --- | --- | --- |
| задание | 1 | 2 | 3 |
| В1 | 5 | 134 | 33,5 |
| В2 | 7 | 24 | 57,5 |
| В3 | 6 | 33 | 87,5 |
| В4 | 3 | 21 | 61,5 |

**17 площадь прямоугольника**

|  |  |  |  |
| --- | --- | --- | --- |
| задание | 1 | 2 | 3 |
| В1 | 25 | 176 | 1200 |
| В2 | 2304 | 270 | 2352 |
| В3 | 2116 | 300 | 4680 |
| В4 | 4 | 486 | 1452 |

**17 площадь квадрата**

|  |  |  |  |
| --- | --- | --- | --- |
| задание | 1 | 2 | 3 |
| В1 | 49 | 1600 | 1444 |
| В2 | 41 | 2116 | 4096 |
| В3 | 19 | 900 | 32400 |
| В4 | 60 | 2025 | 39204 |

**17 площадь круга, сектора**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 | 5 |
| В1 | 1681 | 4 | 27 |  |  |
| В2 | 196 | 10,8 | 22,5 |  |  |
| В3 | 625 | 16 | 54 |  |  |
| В4 | 289 | 60 | 108 |  |  |

**17 площадь параллелограмма**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 |
| В1 | 20 | 840 | 12 | 30 |
| В2 | 28 | 5280 | 12 | 156 |
| В3 | 216 | 7776 | 648 | 135 |
| В4 | 75 | 8664 | 72 | 85 |

**17 площадь прямоугольного треугольника**

|  |  |  |  |
| --- | --- | --- | --- |
| задание | 1 | 2 | 3 |
| В1 | 264,5 | 30 | 33 |
| В2 | 312,5 | 16 | 39 |
| В3 | 338 | 32 | 35 |
| В4 | 364,5 | 12 | 42 |

**17 площадь равнобедренного треугольника**

|  |  |  |
| --- | --- | --- |
| задание | 1 | 2 |
| В1 | 576 | 1260 |
| В2 | 64 | 3888 |
| В3 | 1936 | 2744 |
| В4 | 3249 | 42 |

**17 площадь трапеции**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 |
| В1 | 1512 | 42 | 675 | 17 |
| В2 | 1632 | 24 | 82,5 | 29 |
| В3 | 3864 | 30 | 432 | 24 |
| В4 | 1620 | 28 | 130 | 30 |

**17 треугольники общего вида**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 |
| В1 | 148,5 | 27 | 1290 | 228 |
| В2 | 304,5 | 192 | 3264 | 152 |
| В3 | 3,5 | 364 | 1800 | 100 |
| В4 | 17 | 198 | 10164 | 36 |

**18 квадратная решетка углы**

|  |  |  |  |
| --- | --- | --- | --- |
| задание | 1 | 2 | 3 |
| В1 | 1,2 | -3 | 45 |
| В2 | 1,5 | -1,5 | 45 |
| В3 | 0,5 | -1,5 | 22,5 |
| В4 | 0,75 | -3 | 22,5 |

**18 многоугольники**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 | 5 |
| В1 | 14,5 | 11 | 30,5 | 22 | 21 |
| В2 | 23 | 10 | 28 | 20 | 23 |
| В3 | 25,5 | 16 | 26 | 17 | 20,5 |
| В4 | 28 | 10 | 24 | 19 | 18,5 |

**18 параллелограмм**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 | 5 |
| В1 | 3 | 18 | 6 | 1 | 90 |
| В2 | 5 | 15 | 15 | 5 | 41 |
| В3 | 2 | 10 | 5 | 0,5 | 85 |
| В4 | 2 | 14 | 14 | 4 | 104 |

**18 ромб**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 |
| В1 | 10 | 30 | 34 | 30 |
| В2 | 12 | 24 | 2 | 12 |
| В3 | 8 | 24 | 5 | 4,8 |
| В4 | 10 | 40 | 41 | 40 |

**18 трапеция**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 |
| В1 | 5 | 8 | 40 | 1,25 |
| В2 | 7 | 6 | 42 | 1,75 |
| В3 | 6 | 7 | 42 | 1,5 |
| В4 | 4 | 7 | 28 | 0,75 |

**18 треугольники общего вида**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 |
| В1 | 4 | 4 | 16 | 0,8 |
| В2 | 3 | 5 | 15 | 1 |
| В3 | 7 | 3 | 21 | 7 |
| В4 | 3 | 3 | 9 | 1,5 |

**19 анализ геометрических высказываний**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Задание | 1 | 2 | 3 | 4 | 5 |
| В1 | 12 | 23 | 13 | 13 | 23 |
| В2 | 12 | 1 | 13 | 234 | 34 |
| В3 | 124 | 3 | 124 | 12 | 123 |
| В4 | 3 | 13 | 123 | 1 | 23 |
| В5 | 23 | 3 | 23 | 13 | 12 |
| В6 | 12 | 23 | 3 | 123 | 2 |

рациональные выражения

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| задание | 1 | 2 | 3 | 4 |
| В1 | 1,5 | 0,4 | 0,25 | 16 |
| В2 | -1 | 1,5 | -5 | 1,7 |
| В3 | 2,5 | -16,6 | 0,8 | 4 |
| В4 | 15 | 1,7 | 5,2 | -5 |

целые выражения

|  |  |  |  |
| --- | --- | --- | --- |
| задание | 1 | 2 | 3 |
| В1 | 0 | 16 | 25 |
| В2 | 6 | 0,0625 | 64 |
| В3 | -16 | - 8 | 16 |
| В4 | -60 | - 0,125 | 22 |