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| *Часть А*  *Задачи*, *оцениваемые в 3 балла*  1. Где ошибка?  *а*) 2 + 0 + 0 + 5 = 5 + 0 + 0 + 2; *в*) 2 + (0 + 0 + 5) = (2 + 0 + 0) + 5;  *б*) 2 – (0 – 0 – 5) = 2 + (0 + 0) + 5; *г*) 2 + 0 – 0 + 5 = 5 – 0 – 0 – 2;  *д*) (2 – 0) – (0 – 5) = (2 + 0) + (0 + 5).  2. Не выполняя деления, выясните, делится ли значения выражения:  37 ∙ 124 + 21 ∙ 124 + 58 ∙ 554 на 678.    Ответ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  3. Сколько часов во второй половине первой четверти суток?  Ответ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  4. Зайцы пилят бревно. Они сделали 10 распилов. Сколько получилось  чурбачков?  Ответ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  5. На этой картинке можно увидеть треугольники и квад-  раты, причём квадратов меньше, чем треугольников.  На сколько?  Ответ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  6. В озере растут лотосы. За сутки каждый лотос делится пополам, и вместо  одного лотоса появляются два. Ещё через сутки каждый из получившихся  лотосов делится пополам и так далее. Через 30 суток озеро полностью  покрылось лотосами. Через какое время озеро было заполнено наполо-  вину?    Ответ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  7. Улитка ползёт вверх по столбу высотой 10*м*. За день она поднимается  на 5*м*, а за ночь – сползает на 4*м*. За сколько дней она доберётся от  подножия до вершины столба?    Ответ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 8. Путешественник проплыл по реке на плоту 75*км* за 25*ч*. Обратно он  вернулся на моторной лодке, собственная скорость 28*км*/*ч*. Сколько  времени затратил путешественник на обратный путь?    Ответ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_    *Часть В*  *Задачи*, *оцениваемые в 4 балла*  9. Какое из этих чисел является одновременно и кубом, и квадратом  некоторых целых чисел?  *а*) 8; *б*) 27; *в*) 36; *г*) 64; *д*) 125.  10. Два художника получили заказ раскрасить 120 тарелок. Первый худож-  ник может выполнить заказ за 12 дней, второй – за 8 дней. Верно ли  утверждение?  *а*) Первый художник за день раскрашивает на 4 тарелки меньше, чем  второй. Ответ \_\_\_\_\_\_\_  *б*) Если художники будут работать вдвоём, то пяти дней им хватит,  чтобы выполнить заказ полностью. Ответ \_\_\_\_\_\_\_  11. Среди кошек, обитающих в лагере «Ручеёк», три – пушистые, а две –  полосатые. Какое наименьшее количество неполосатых пушистых  кошек может быть в лагере?  Ответ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  12. На рисунке изображены квадрат и 5 одинаковых касаю-  щихся кругов. Площадь каждого из кругов равна 1. Верши-  ны квадрата расположены в центрах внешних кругов.  Чему равна площадь закрашенной части?    Ответ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | № задания | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Всего баллов | | Количество баллов |  |  |  |  |  |  |  |  |  |  |  |  |  | |

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