**Проверочная работа по МАТЕМАТИКЕ**

**5 КЛАСС**

# Пояснение

На выполнение работы по математике отводится два урока (не более 45 минут каждый). Работа состоит из двух частей и включает в себя 17 заданий.

Обе части работы могут выполняться в один день с перерывом не менее 10 минут или в разные дни.

При выполнении работы не разрешается пользоваться учебниками, рабочими тетрадями, справочниками, калькулятором.

При необходимости можно пользоваться черновиком. Записи в черновике проверяться и оцениваться не будут.

**В образце представлено по несколько примеров заданий 1 и 5. В реальных вариантах проверочной работы на каждую из этих позиций будет предложено только одно**

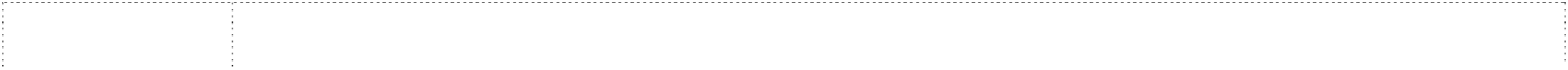
**задание.**

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*Таблица для внесения баллов участника*\*

Часть

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Номер

задания

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4(1)

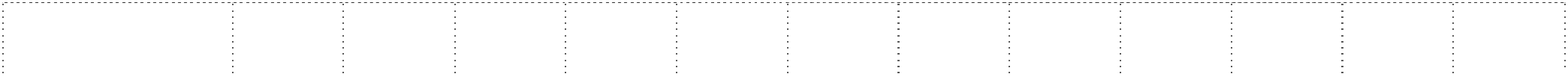
4(2)

5

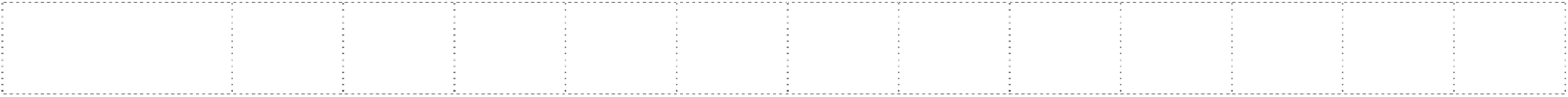
6

7

8



Баллы



Часть

2



Номер

задания

13

14

15

16

17

12

Сумма

баллов

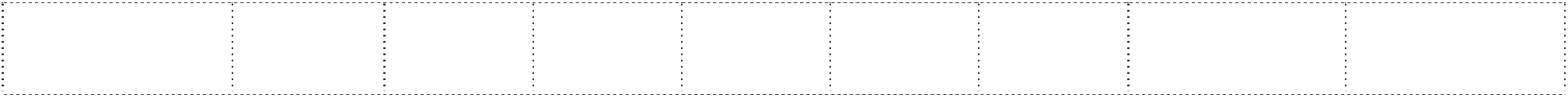
Отметка

за

работу



Баллы



# Инструкция по выполнению заданий части 1 проверочной работы

На выполнение заданий части 1 проверочной работы по математике отводится один урок (не более 45 минут). Часть 1 включает в себя 11 заданий.

Ответы на задания запишите в поля ответов в тексте работы. Если Вы хотите изменить ответ, зачеркните его и запишите рядом новый.

При выполнении работы не разрешается пользоваться учебниками, рабочими тетрадями, справочниками, калькулятором.

При необходимости можно пользоваться черновиком. Записи в черновике проверяться и оцениваться не будут.

Советуем выполнять задания в том порядке, в котором они даны. В целях экономии времени пропускайте задание, которое не удаётся выполнить сразу, и переходите к следующему. Если после выполнения работы у Вас останется время, то Вы сможете вернуться к пропущенным заданиям.

***Желаем успеха!***

# Часть 1

Выполните сложение: 2 + 3.

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# ИЛИ

Представьте в виде обыкновенной дроби число 2.

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# ИЛИ

Выполните вычитание: 2,96 −1,03.

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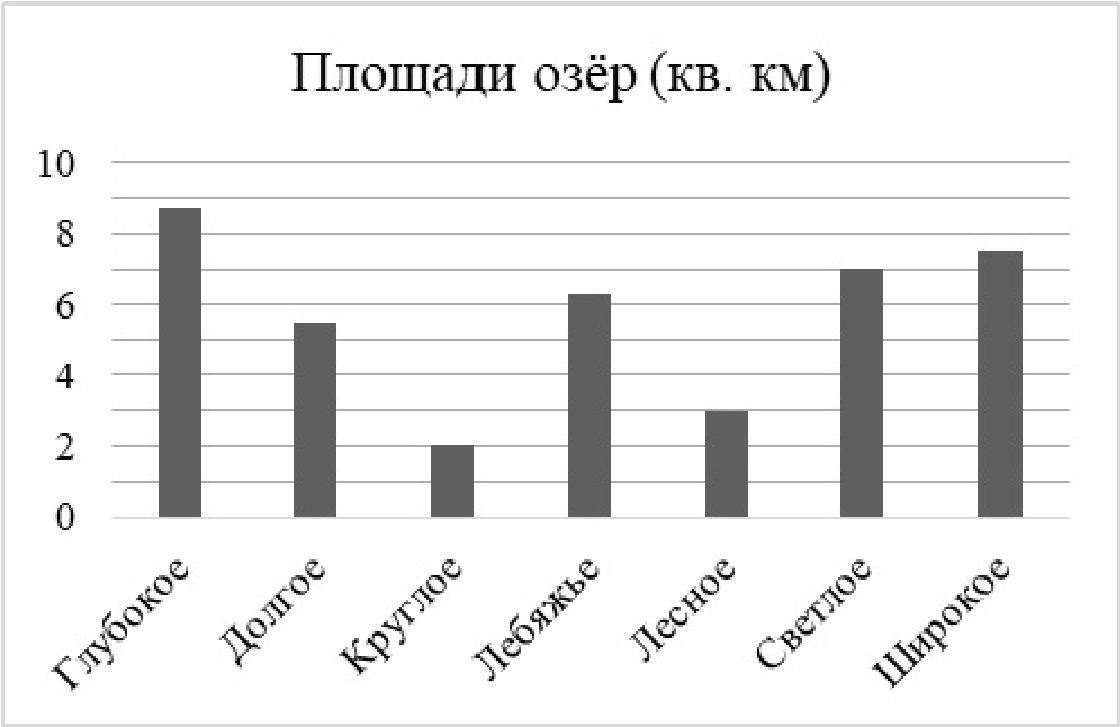
В автобусе 60 мест для пассажиров. Две пятых мест уже заняты. Сколько свободных мест в автобусе?

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Каким числом нужно заменить букву **А**, чтобы получилось верное равенство?

**A** :31= 26

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На диаграмме представлены данные о площади поверхности нескольких озёр. Первое место по площади занимает озеро Глубокое.

Ответьте на вопросы.

1. Какое из этих озёр занимает третье место по площади поверхности?

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1. На сколько квадратных километров площадь озера Светлого больше площади озера Лесного?

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Бумага расчерчена на квадраты со стороной 1 см. Найдите площадь нарисованной фигуры. Ответ дайте в кв. см.

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# ИЛИ

На клетчатой бумаге со стороной клетки 1 см нарисована фигура. Найдите периметр этой фигуры. Ответ дайте в сантиметрах.

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Найдите координату точки *А*, отмеченной на числовом луче.

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Два токаря выточили 220 деталей за 2 часа. Сколько деталей в час вытачивает каждый токарь, если известно, что в час они вытачивают одинаковое количество деталей?

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Аквариум имеет форму прямоугольного параллелепипеда длиной 150 см, шириной 60 см, высотой 40 см. Найдите объём аквариума. Ответ дайте в литрах. В 1 литре 1000 кубических сантиметров.

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| Ответ: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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Число 25 6*A* делится на 9. Какая цифра должна стоять вместо буквы *A*?

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Установите соответствие между числами и утверждениями.

**ЧИСЛА**  **УТВЕРЖДЕНИЯ**

А) 2 1) Число больше 1, но меньше 2.

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7 2) Число меньше 0,5.

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Б) 3) Число больше 2.

4) Число больше 0,5, но меньше 1.

В) 20

9

Г)

В таблице под каждой буквой укажите номер утверждения.

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Ответ:

В двух коробках 36 карандашей. В первой коробке карандашей в 3 раза меньше, чем во второй. Сколько карандашей во второй коробке?

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## Инструкция по выполнению заданий части 2 проверочной работы

На выполнение заданий части 2 проверочной работы по математике отводится один урок (не более 45 минут). Часть 2 включает в себя 6 заданий.

Во всех заданиях запишите решение и ответ в указанном месте. Если Вы хотите изменить ответ, зачеркните его и запишите рядом новый.

При выполнении работы не разрешается пользоваться учебниками, рабочими тетрадями, справочниками, калькулятором.

При необходимости можно пользоваться черновиком. Записи в черновике проверяться и оцениваться не будут.

Советуем выполнять задания в том порядке, в котором они даны. В целях экономии времени пропускайте задание, которое не удаётся выполнить сразу, и переходите к следующему. Если после выполнения работы у Вас останется время, то Вы сможете вернуться к пропущенным заданиям.

***Желаем успеха!***

## Часть 2

Принтер печатает 72 страницы за 3 минуты. За сколько минут этот принтер напечатает 120 страниц?

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| Решение. | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Ответ: | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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13 Найдите значение выражения 4800:24+ 4 (81⋅ −63):2.

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| Решение. | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Ответ: | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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14 В магазине продаётся несколько видов творога в различных упаковках и по различной цене. В таблице указана масса каждой упаковки и её цена. Килограмм какого творога стоит меньше всего? В ответе запишите наименование и стоимость одного килограмма этого творога.

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| Наименование | Масса упаковки | Цена за упаковку |
| «Любимый» | 200 г | 150 руб. |
| «Утренний» | 250 г | 175 руб. |
| «Рассыпчатый» | 500 г | 355 руб. |
| «Деревенский» | 200 г | 165 руб. |

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| Решение. | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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15 Одна сторона прямоугольника равна 7 см, его периметр – 34 см. Найдите площадь этого

прямоугольника.

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| Решение. | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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16. За первый час велосипедист проехал четвёртую часть всего пути; за второй – третью часть. Затем он сделал остановку. После остановки ему осталось проехать ещё 20 км. Сколько километров составляет весь путь велосипедиста?

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| Решение. | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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17. Через пункты А и Б, расстояние между которыми 300 км, проходит прямолинейное шоссе. Из пунктов А и Б одновременно выехали автомобиль и автобус. Автомобиль едет со скоростью 80 км/ч, автобус – со скоростью 50 км/ч. Какое расстояние будет между автомобилем и автобусом через час? Найдите все возможные варианты.

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| Решение. | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Ответ: | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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**Система оценивания проверочной работы**

## Часть 1

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Номер задания | 1 | 2 | 3 | 4(1) | 4(2) | 5 | 6 | 7 | 8 | 9 | 10 | 11 | Итого |
| Балл | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 12 |

|  |  |
| --- | --- |
| **Номер задания** | **Правильный ответ** |
| 1 | ИЛИ    ИЛИ  1,93 |
| 2 | 36 |
| 3 | 806 |
| 4(1) | Светлое |
| 4(2) | 4 |
| 5 | 18  ИЛИ  16 |
| 6 | 9 |
| 7 | 55 |
| 8 | 360 |
| 9 | 5 |
| 10 | 2431 |
| 11 | 27 |

**Система оценивания проверочной работы**

## Часть 2

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Номер задания | 12 | 13 | 14 | 15 | 16 | 17 | Итого |
| Балл | 2 | 2 | 2 | 2 | 2 | 2 | 12 |

**12**

Принтер печатает 72 страницы за 3 минуты. За сколько минут этот принтер напечатает 120 страниц?

|  |  |
| --- | --- |
| **Решение и указания к оцениванию** | **Баллы** |
| Решение.  В минуту принтер печатает: 72:3 = 24 страницы. Время печати 120 страниц: 120:24 = 5 минут.    **Возможна другая последовательность действий.**    Ответ: 5 минут |  |
| Обоснованно получен верный ответ | 2 |
| Дан верный ответ, но решение недостаточно обосновано.  ИЛИ  Ход решения верный, но допущена вычислительная ошибка | 1 |
| Решение не соответствует ни одному из критериев, перечисленных выше | 0 |
| *Максимальный балл* | *2* |

**13**

Найдите значение выражения 4800:24+ 4 (81⋅ −63):2.

|  |  |
| --- | --- |
| **Решение и указания к оцениванию** | **Баллы** |
| Решение.   1. 4800:24 = 200; 2. 81−63 =18; 3. 4 18:2⋅ = 36; 4. 200+36 = 236.   Ответ: 236 |  |
|  |  |
| *Максимальный балл* | *2* |

1. В магазине продаётся несколько видов творога в различных упаковках и по различной цене. В таблице указана масса каждой упаковки и её цена. Килограмм какого творога стоит меньше всего? В ответе запишите наименование и стоимость одного килограмма этого творога.

|  |  |  |
| --- | --- | --- |
| Наименование | Масса упаковки | Цена за упаковку |
| «Любимый» | 200 г | 150 руб. |
| «Утренний» | 250 г | 175 руб. |
| «Рассыпчатый» | 500 г | 355 руб. |
| «Деревенский» | 200 г | 165 руб. |

|  |  |
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| **Решение и указания к оцениванию** | **Баллы** |
| Решение.  В одном килограмме пять упаковок по 200 г, четыре упаковки по 250 г или две упаковки по 500 г.  1 кг творога «Любимый» стоит: 150 5⋅ = 750 рублей. 1 кг творога «Утренний» стоит: 175 4⋅ = 700 рублей.  1 кг творога «Рассыпчатый» стоит: 355 2⋅ = 710 рублей. Творог «Деревенский» стоит дороже, чем «Любимый».    **Возможна другая последовательность действий.**    Ответ: творог «Утренний»; 700 рублей |  |
| Обоснованно получен верный ответ | 2 |
| Дан верный ответ, но решение недостаточно обосновано.  ИЛИ  Ход решения верный, но допущена вычислительная ошибка | 1 |
| Решение не соответствует ни одному из критериев, перечисленных выше | 0 |
| *Максимальный балл* | *2* |

1. Одна сторона прямоугольника равна 7 см, его периметр – 34 см. Найдите площадь этого прямоугольника.

|  |  |
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| **Решение и указания к оцениванию** | **Баллы** |
| Решение.  Вторая сторона прямоугольника равна: (34−7 −7 :2) =10 см.  Площадь прямоугольника равна: 7 10⋅ = 70 см2 .    **Возможна другая последовательность действий.**    Ответ: 70 см2 |  |
| Обоснованно получен верный ответ | 2 |
| Дан верный ответ, но решение недостаточно обосновано.  ИЛИ  Ход решения верный, но допущена вычислительная ошибка | 1 |
| Решение не соответствует ни одному из критериев, перечисленных выше | 0 |
| *Максимальный балл* | *2* |

**16**

За первый час велосипедист проехал четвёртую часть всего пути; за второй – третью часть. Затем он сделал остановку. После остановки ему осталось проехать ещё 20 км. Сколько километров составляет весь путь велосипедиста?

|  |  |
| --- | --- |
| **Решение и указания к оцениванию** | **Баллы** |
| Решение.  Найдём, какую долю всего пути составляют 20 км.  1− + = − =1 1 1 7 5 .  4 3 12 12  Тогда весь путь равен 48 км.    **Возможна другая последовательность действий.**    Ответ: 48 км |  |
| Обоснованно получен верный ответ | 2 |
| Дан верный ответ, но решение недостаточно обосновано.  ИЛИ  Ход решения верный, но допущена вычислительная ошибка | 1 |
| Решение не соответствует ни одному из критериев, перечисленных выше | 0 |
| *Максимальный балл* | *2* |

**17** Через пункты А и Б, расстояние между которыми 300 км, проходит прямолинейное шоссе. Из пунктов А и Б одновременно выехали автомобиль и автобус. Автомобиль едет со скоростью 80 км/ч, автобус – со скоростью 50 км/ч. Какое расстояние будет между автомобилем и автобусом через час? Найдите все возможные варианты.

|  |  |
| --- | --- |
| **Решение и указания к оцениванию** | **Баллы** |
| Решение.  Если автомобиль и автобус выехали навстречу друг другу, расстояние между ними через час будет: 300−(80+50) =170 км.  Если автомобиль «догоняет» автобус, расстояние между ними через час будет: 300 80 50 270−( − )= км.  Если автобус «догоняет» автомобиль, расстояние между ними через час будет: 300 80 50 330+( − )= км.  Если автомобиль и автобус выехали в противоположные стороны, расстояние между ними через час будет: 300 80 50 430+( + )= км.    **Возможна другая последовательность действий.**    Ответ: или 170 км, или 270 км, или 330 км, или 430 км |  |
| Получены все верные ответы | 2 |
| Верно указаны два или три из четырёх ответов | 1 |
| Решение не соответствует ни одному из критериев, перечисленных выше | 0 |
| *Максимальный балл* | *2* |

## Система оценивания выполнения всей работы

Максимальный первичный балл за выполнение работы — **24**.

*Рекомендуемая таблица перевода баллов в отметки по пятибалльной шкале*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Отметка по пятибалльной шкале** | **«2»** | **«3»** | **«4»** | **«5»** |
| Первичные баллы | 0–6 | 7–12 | 13–18 | 19–24 |