**Проверочная работа по МАТЕМАТИКЕ**

**7 класс**

**Вариант 9**

**Инструкцияповыполнениюработы**

Навыполнениеработыпоматематикедаётся60минут.Работасодержит15заданий.

В заданиях, после которых есть поле со словом «Ответ», запишите ответ в указанномместе.

В задании 12 нужно отметить и обозначить точки на числовой прямой. В задании 14нужнопостроить схематично график.

Взаданиях,послекоторыхестьполясословами«Решение»и«Ответ»,запишитерешениеиответвуказанныхместах.

ЕслиВыхотитеизменитьответ,зачеркнитеегоизапишитерядомдругой.

Привыполненииработынельзяпользоватьсяучебниками,рабочимитетрадями,справочниками,калькулятором.

Принеобходимостиможнопользоватьсячерновиком.Записивчерновикепроверятьсяиоцениватьсянебудут.

Советуемвыполнятьзаданиявтомпорядке,вкоторомониданы.Дляэкономиивремени пропускайте задание, которое не удаётся выполнить сразу, ипереходитекследующему.Постарайтесьвыполнитькакможнобольшезаданий.

***Желаемуспеха!***

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| *Таблицадлявнесениябалловучастника* | | | | | | | | | | | | | | | | | |
| *Номера*  Номерзадания  1  2 3 4 5 6 7 8 9 10 11 12 13 14 15  СуммаОтметкабалловзаработу  Баллы  *задания* | *1* | *2* | *3* | *4* | *5* | *6* | *7* | *8* | *9* | *10* | *11* | *12* | *13* | *14* | *15* | *Сумма*  *баллов* | *Отметка за работу* |
| *Баллы* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Найдите значение выражения25:31.

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84 2

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Найдитезначениевыражения8,43,51,9.

**2**

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Втаблицепоказано,сколькоднейвмесяцвыпадалиосадкивКазанивтечениенекоторогогода.

**3**

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| Осадки | Месяц | | | | | | | | | | | |
| янв | февр | март | апр | май | июнь | июль | авг | сент | окт | нояб | дек |
| Дождь | 0 | 0 | 2 | 11 | 15 | 8 | 6 | 6 | 18 | 7 | 2 | 0 |
| Снег | 8 | 13 | 16 | 6 | 1 | 0 | 0 | 0 | 1 | 3 | 7 | 14 |
| Роса,  иней | 3 | 2 | 3 | 3 | 0 | 1 | 1 | 1 | 2 | 3 | 4 | 3 |

Пользуясьданными,представленнымивтаблице,найдите,сколькоднейвКазанивыпадалснегвзимниемесяцы.

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Поездидётсоскоростью198км/ч.Сколькометровонпроезжаетзаоднусекунду?

**4**

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Послеподорожанияценакурткиподняласьс3000рублейдо3450рублей.Насколькопроцентовподорожалакуртка?

**5**

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Ручкастоитстолькоже,сколькокарандашиточилкавместе,аточилкадорожекарандаша.Выберитеверныеутвержденияизапишитевответеихномера.

**6**

1. Карандашдорожеручки.
2. Дветочилкистоятдешевлеручки.
3. Карандашдешевлеточилки.
4. Ручкадорожеточилки.

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Надиаграммепредставленораспределениеколичествазарегистрированныхпользователейнекоторогосайтапостранаммира.Всегонасайтезарегистрировано100тысяччеловек.

**7**

АвстралияВеликобританияСША

другиестраны

Определитеподиаграмме,сколькопримерножителейАвстралиизарегистрированонаэтомсайте.

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Графикфункции

**8**

*y**kx*4проходитчерезточкускоординатами(13;5)

.Найдите

коэффициент*k*.

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Решитеуравнение4*x*1533*x*5.

**9**

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Прочитайтетекст.

**10**

*При варке разные крупы увеличиваются в объёме по-разному. Очень сильно развариваетсяовсяная крупа. В меньшей степени — гречневая крупа и рис. Например, из одного литра(900 г)рисовойкрупыполучается3кгварёногорассыпчатогориса.Опытныйповарзнает,скольководытребуетсянаопределённыйобъёмкрупы,иникогданеошибётся.Но всёравнонакухнекаждойстоловойестьтаблица,гдеуказано,каксильноразвариваетсякаждый видкрупы.*

Встуденческойстоловойготовяткотлеты,анагарнир—рис.Вкаждойпорции150гварёногориса.Хватитли8кгкрупыдлятого,чтобыприготовить 200порцийриса?

Запишитерешениеиответ.

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| Решение: | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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Найдите значение выражения*a*3262*a*

**11**

при*a*0,5.

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Отметьтеиобозначьтенакоординатнойпрямойточки

**12**

*A*3,67,

*B*(1)

и*C*1,22.

Ответ:

Наклетчатойбумагесразмеромклетки11отмеченыточки*A*,*B*и*C*.Найдитесуммууглов*ABC*и*CAB*. Ответдайтевградусах.

**13**

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|  | *A* |  |  | *C* |
|  |  |  |  |  |
|  |  |  |  | *B* |
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| Ответ: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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Прочитайтетекст.



**14**

*Впонедельникутромкоткрытиюкаткапришлипервыепосетители.Первыйсеансначалсяв11:00.Пришло11человек:тримамысдетьмиинесколькошкольников,которыеучатсявовторуюсмену.Второйсеанспосетилона4человекабольше.На третьем сеансе было на 2 человека больше, чем на втором. На четвёртый сеанспришлишкольники,укоторыхужезакончилисьуроки,инесколькодошкольниковс родителями — всего на сеансе было 19 человек. Пятый сеанс начался в 15:00, на катокпришло 15 человек. На шестой сеанс пришли освободившиеся после занятий студентыколледжа.Числокатающихсявозрослонатреть,посравнениюспредыдущимсеансом.К началуседьмогосеансанакатокпришламолодёжь,работающаянапредприятиипососедству.Общеечислопосетителейсоставило24человека.Восьмойсеансначалсяв20:00,катающихсябыло на2человекабольше,чем вовремя седьмогосеанса.*

По описанию постройте график зависимости числа посетителей катка от сеанса. Соседниеточки соедините отрезками. Точка, показывающая число посетителей на первом сеансе, ужеотмеченанарисунке.

Ответ: Числопосетителей



Сеанс

В 9:00 велосипедист выехал из пункта А в пункт B. Доехав до пункта B, он сделал остановкунаполчаса,ав11:30выехалобратноспрежнейскоростью.В13:00емуоставалосьпроехать8кмдопунктаА.НайдитерасстояниемеждупунктамиАиB.

**15**

Запишитерешениеиответ.

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| Решение: | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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