**Проверочная работа по МАТЕМАТИКЕ**

**7 класс**

**Вариант 21**

**Инструкция по выполнению работы**

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 14нужнопостроитьсхематичнографик.

Взаданиях,послекоторыхестьполесословами«Решение»и«Ответ»,запишитерешениеиответвуказанном месте.

ЕслиВыхотитеизменитьответ,зачеркнитеегоизапишитерядомдругой.

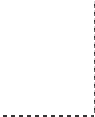
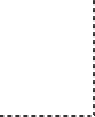
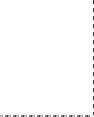
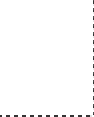
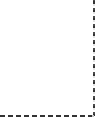
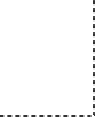
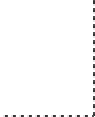
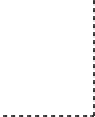
Привыполненииработынельзяпользоватьсяучебниками,рабочимитетрадями,справочниками,калькулятором.

Принеобходимостиможнопользоватьсячерновиком.Записивчерновикепроверятьсяиоцениваться не будут.

Советуемвыполнятьзаданиявтомпорядке,вкоторомониданы.Дляэкономиивремени пропускайте задание, которое не удаётся выполнить сразу, и переходитекследующему. Постарайтесьвыполнитькакможнобольше заданий.

***Желаемуспеха!***

*Таблицадлявнесениябалловучастника*



Номерзадания

1

2 3 4 5 6 7 8 9 10 11 12 13 14 15

СуммаОтметкабалловзаработу

Баллы

Найдитезначениевыражения9:53.

**1**

82 20

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Найдитезначениевыражения 4,2 .

**2**

2,96,4

**3**

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В таблице показано, сколько дней в месяц выпадали осадки в Костроме в течение некоторогогода.

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| Осадки | Месяц | | | | | | | | | | | |
| янв | февр | март | апр | май | июнь | июль | авг | сент | окт | нояб | дек |
| Дождь | 0 | 0 | 4 | 14 | 16 | 7 | 9 | 17 | 18 | 12 | 3 | 0 |
| Снег | 8 | 12 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 12 |
| Роса,  иней | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 3 | 4 | 4 | 3 | 2 |

Пользуясь данными, представленными в таблице, найдите, сколько дней в Костроме выпадалснегвзимние месяцы

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| Ответ: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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Самолёт,находящийсявполёте,преодолевает175метровзакаждуюсекунду.Выразитескоростьсамолётавкилометрахвчас.

**4**

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| Ответ: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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Ежемесячнаяплатазателефонсоставляет240рублей.Вследующемгодуонаувеличитсяна5%.Сколькорублейбудетежемесячнаяплатазателефонвследующем году?

**5**

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Линейка стоит столько же, сколько точилка и карандаш вместе, а точилка дороже карандаша.Выберитеверныеутверждения изапишите вответе ихномера.

**6**

1. Точилкадорожелинейки.
2. Дветочилкистоятдорожелинейки.
3. Карандашдешевлелинейки.
4. Точилкадешевлекарандаша.

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Надиаграммепоказаносодержаниепитательныхвеществвсушёныхбелыхгрибах.

**7**

белкижирыуглеводыпрочее\*

\*Кпрочемуотносятсявода,витаминыиминеральныевещества.

Определитеподиаграмме,сколькопримернограммовбелковсодержитсяв100гсушёныхбелыхгрибов.

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Графикфункциизначение*b*.

**8**

*y*7*x**b*

3

проходитчерезточкускоординатами6;10.

Найдите

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Решитеуравнение63*x*13*x*11*x*.

**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 1 кг рисовойкрупы получается 3,4 кг варёного рассыпчатого риса. Опытный повар знает, скольководытребуетсянаопределённыйобъёмкрупы,иникогданеошибётся.Новсёравнонакухнекаждойстоловойестьтаблица,гдеуказано,каксильноразвариваетсякаждый*

*видкрупы.*

Встуденческойстоловойготовяткотлеты,анагарнир—рис.Вкаждойпорции200гварёногориса.Хватитли7кгкрупыдлятого,чтобыприготовить100порцийриса?

Запишитерешениеиответ.

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| Решение. | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Ответ: | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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Найдите значение выражения6*p*29*p*5при

**11**

*p*0,4.

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| Ответ: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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ОтметьтеиподпишитенакоординатнойпрямойточкиОтвет:

**12**

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| *A* |  | *C* |  |  | *B* |  |  |  | *D* |
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*A*313,

18

 

*B*0,81

и*C*3,88.

Наклетчатойбумагесразмеромклетки11

**13**

отмечены

точки*А*,*В*,*С*и*D*.Найдитерасстояниемеждусерединамиотрезков*AB* и*CD*.

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| Ответ: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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Прочитайтетекст.

**14**

*В понедельник сайт посетило 27 человек. Во вторник — на 2 человека больше. В средучислопосетителейуменьшилосьна4человека,иэтобыласамаянизкаяпосещаемостьза неделю. В четверг на сайте публикуется новость недели, поэтому в четверг числопосетителей выросло на 20% по сравнению со средой. В пятницу сайт посетило столькожечеловек,сколькововторник.Квыходнымколичествопосетителейвсегдаувеличивается.Всубботуихбылона7человекбольше,чемвпредыдущийдень.В воскресенье посещаемость сайта была наибольшей за неделю — в полтора раза выше,чемв четверг.*

Поописаниюпостройтеграфикзависимостичислапосетителейсайтаотднянедели.Соседние точки

соедините отрезками. Точка, показывающая число посетителей

впонедельник,ужеотмеченанарисунке.

Числопосетителей

Ответ:



Деньнедели



































Расстояние между пунктами А и В равно 140 км. Из пункта А в пункт В выехал легковойавтомобиль.ОдновременноснимизпунктаВвпунктАвыехалгрузовойавтомобиль,скорость которого на 20 км/ч меньше скорости легкового. Через час после начала движенияонивстретились.ЧерезсколькоминутпослевстречигрузовойавтомобильприбылвпунктА?

**15**

Запишитерешениеиответ.

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| Решение. | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Ответ: | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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