7 класс математика

Промежуточная аттестация

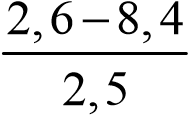
Найдите значение выражения  .

Таблица содержит данные о росте учащихся класса.

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| Фамилия | Рост, см | Фамилия | Рост, см | Фамилия | Рост, см |
| Алексеев | 156 | Гетманов | 160 | Завидов | 163 |
| Андреева | 159 | Добромыслов | 156 | Коваль | 154 |
| Борисов | 162 | Евсеева | 1154 | Петровская | 149 |
| Вольский | 158 | Железов | 167 | Юсуфов | 165 |

Определите явно ошибочное значение (выброс), внесённое в эту таблицу.

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Удалите выброс и найдите размах оставшихся значений.

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Трактор едет по дороге, проезжая 10 метров за каждую секунду. Выразите скорость трактора в километрах в час.

Катя младше Тани, но старше Даши. Ксюша не младше Даши. Укажите номера истинных утверждений.

Таня и Даша одного возраста.

Среди указанных девочек нет никого младше Даши.

Таня старше Даши.

Таня и Катя одного возраста.

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Найдите корень уравнения 2 4( +3*x*)=− −*x* 13.

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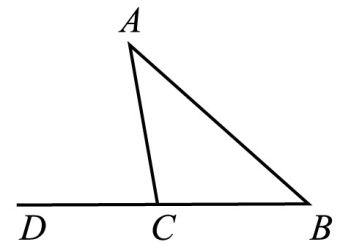
На клетчатой бумаге с размером клетки 1 1× отмечены три точки: *A*, *B* и *C* . Найдите расстояние от точки *A* до прямой *BC* .

*C*

*A*

*B*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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В треугольнике *ABC* угол *BAC* равен 40°, *АC CB*= . Найдите внешний угол при вершине *C* .

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**Найдите значение выражения (4− −*y*)2 *y y*( +1) при *y*=−** **.**

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| Ответ: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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На рисунке показан абажур, изготовленный из стальной проволоки. Какое наименьшее количество кусков проволоки нужно, чтобы изготовить абажур, показанный на рисунке?