**Олимпиада по математике**

1. **Найди три числа, которые при попарном сложении дают в сумме двадцать, тридцать и сорок.**

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1. **Вычеркни из числа 4921508 четыре цифры так, чтобы получившееся трехзначное число было как можно меньше.**

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1. **На двери пещеры сокровищ висит кодовый замок с шифром.**

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**Нужно набрать на замке девять разных цифр (1,2,3,4,5,6,7,8,9) так, чтобы цифры не повторялись, и равенство было верным.**

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1. **Реши задачу.**

Шестеро тянут репку: дедка вдвое сильнее бабки, бабка вдвое сильнее внучки, внучка вдвое сильнее Жучки, Жучка вдвое сильнее кошки, кошка вдвое сильнее мышки. Сколько нужно позвать мышек, чтобы они сами вытянули репку?

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1. **Реши ребус.**

Каждую букву замени цифрой так, чтобы получилось верное арифметическое равенство. Одинаковым буквам соответствуют одинаковые цифры, различным буквам – различные цифры. Известно, что буква Ю обозначает цифру 6.

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**6. Реши задачу.**

Рассерженный крот в погоне за обидевшим его червяком перерыл 3 участка прямоугольной формы. Ширина первого участка 20 м, второго – 23 м, а третьего 26 - м. Общая площадь 3 участков равна 2760 м2 . Какова площадь самого большого и самого маленького участков, если длина всех участков одинакова?

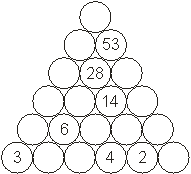
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**7. Реши задачу.**

Три друга – Ваня, Юра и Егор – решили поужинать в пиццерии. Ваня купил для всех три пиццы, а Юра – пять таких же пицц. У Егора денег с собой не было, но спустя несколько дней он возместил расходы, вернув товарищам 8 рублей. Сколько рублей должен забрать себе Юра, если друзья разделили ужин поровну?

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**8. В этой фигуре сумма чисел в двух соседних кругах равна числу в круге, лежащему над ними. Заполните пустые круги.**



**9. Реши задачу.**

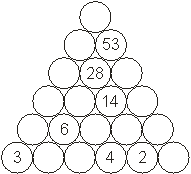
Для перевозки 6 т груза на 350 км нужно воспользоваться услугами одной из двух транспортных компаний. Каждая компания предлагает один вид автомобилей. Сколько рублей будет стоить наиболее дешевый вариант перевозки?

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| Компания- перевозчик | Стоимость перевозки (руб. за 10 км) | Грузоподъемность автомобиля (т) |
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Ответы

1. 5,15,25
2. 108
3. 56:8=9-2=3+4=1\*7
4. 63 мышки
5. 4260 + 4260=8520
6. 1040 м2 , 800 м2
7. 7 рублей



1. 980 рублей