

SAT数学

张斯乐



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◆1.Heart of Algebra

1.4 Linear inequality / linear word problems

解一元一次不等式，要根据不等式的基本性质，将不等式逐步化为 $x > a$ 的形式，一般步骤为：

(1) 去分母；(2)去括号；(3)移项；(4)合并同类项；(5)系数化为 1

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读题过程中，一定要注意变量，以及对应表示含义。另外注意数量(数字及单位)；表达数学运算或数学关系的短语及句型 (more than, less than)；否定词，特殊词

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◆ 1.4 Linear inequality / linear word problems

1. Maria plans to rent a boat. The boat rental costs \$60 per hour, and she will also have to pay for a water **safety** course that costs \$10. Maria wants to spend no more than \$280 for the rental and the course. If the boat rental is available only for a whole number of hours, what is the maximum number of hours for which Maria can rent the boat?

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2. According to the information in the preceding table, what is the approximate age of an American elm tree with a diameter of 12 inches?

- A. 24 years
- B. 36 years
- C. 40 years
- D. 48 years

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3.If a white birch tree and a pin oak tree each now have a diameter of 1 foot, which of the following will be closest to the difference, in inches, of their diameters 10 years from now? (1 foot equals 12 inches.)

- A.1.0
- B.1.2
- C.1.3
- D.1.4

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4. The relationship between the monthly rental price r , in dollars, and the property's purchase price p , in thousands of dollars, can be represented by a linear function. Which of the following functions represents the relationship?

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5. A psychologist set up an experiment to study the tendency of a person to select the first item when presented with a series of items. In the experiment, 300 people were presented with a set of five pictures arranged in random order. Each person was asked to choose the most appealing picture. Of the first 150 participants, 36 chose the first picture in the set. Among the remaining 150 participants, p people chose the first picture in the set. If more than 20% of all participants chose the first picture in the set, which of the following inequalities best describes the possible values of p ?

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作业讲解-第6题到第10题

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6. A company that makes wildlife videos purchases camera equipment for \$32,400. The equipment depreciates in value at a constant rate for 12 years, after which it is considered to have no monetary value. How much is the camera equipment worth 4 years after it is purchased?

- A.\$10,800
- B.\$16,200
- C.\$21,600
- D.\$29,700

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7. Ken is working this summer as part of a crew on a farm. He earned \$8 per hour for the first 10 hours he worked this week. Because of his performance, his crew leader raised his salary to \$10 per hour for the rest of the week. Ken saves 90% of his earnings from each week. What is the least number of hours he must work the rest of the week to save at least \$270 for the week?

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8. A shipping service restricts the dimensions of the boxes it will ship for a certain type of service. The restriction states that for boxes shaped like rectangular prisms, the sum of the perimeter of the base of the box and the height of the box cannot exceed 130 inches. The perimeter of the base is determined using the width and length of the box. If a box has a height of 60 inches and its length is 2.5 times the width, which inequality shows the allowable width x , in inches, of the box?

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9. Oil and gas production in a certain area dropped from 4 million barrels in 2000 to 1.9 million barrels in 2013. Assuming that the oil and gas production decreased at a constant rate, which of the following linear functions f best models the production, in millions of barrels, t years after the year 2000?

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10. For 5 consecutive even integers, the sum of the first and third integer is 20 less than 3 times the fourth integer. What is the fifth integer?

- A.12
- B.14
- C.16
- D.26

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