

【尚友制作】数学猴哥难题 112 讲解 11-20

NO 11

n = (k + (r/s)) / (t/v)

in the equation above, k, r, s, t, and v represent positive numbers. Multiplying which one of these numbers by 2 will reduce the value of n to 1/2 of its present value

- A. K
- B. R
- C. S
- D. T
- E. V

解答:简单的提取常数,分母翻倍,原数 减半。所以答案是作为分母的 T 选择 D

NO 12

n = (k+(r/s)) / (t/v)

in the equation above, k, r, s, t, and v represent positive numbers. Multiplying which one of these numbers by 2 will reduce the value of n to 1/2 of its present value

- A K
- B. R
- C. S
- D. T
- E. V

解答:简单的提取常数,分母翻倍,原数 减半。所以答案是作为分母的 T 选择 D

NO 13

Column A	Column B
The two-digit integer that equals twice the sum of its digit	16

解答: 十位为A,个位为B。那么 $10A+B=2(A+B) \rightarrow 8A=B \rightarrow 因为AB都是个位数,所以A=1 B=8,这个两位数是18 比16 大,选A$



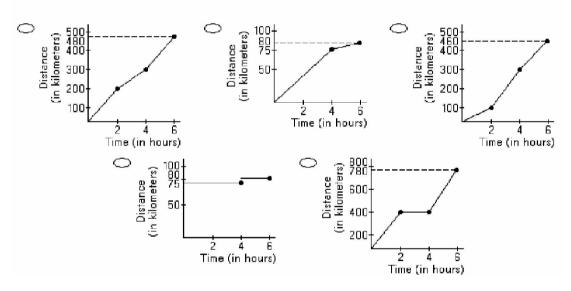
NO 14

Column A	Column B
The remainder when n is divided by 14	10

解答: n被7除余3 → n=7*a + 3; n为偶数→ a 是奇数 →a=2b+1 其中b为任意整数 → n=7*(2b+1)+3 = 14*b+10 → n除14 余10 所以选C

NO 15

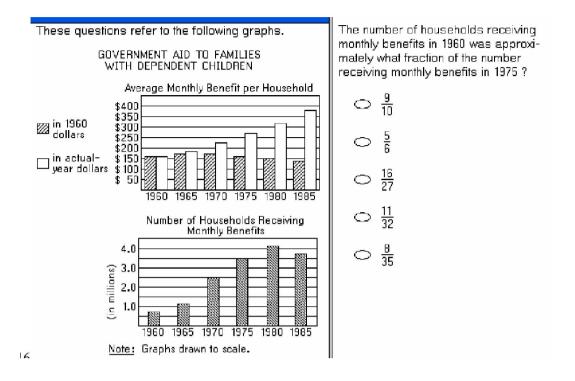
A car travels at an average speed of 80 kilometers per hour during a 6-hour trip and averages 75 kilometers per hour for the first 4 hours of the trip. Which of the following distance-*versus*-time graphs is consistent with this information?



用总量定点算。6个小时平均速度为80,那么六小时后,总行驶路程为480,同理,前四个小时平均速度是75,那么一共是300,所以答案是A

NO 16

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这一题,是讲 number of households receiving monthly benefit 的,所以看图二,图中显示,1960 年的数据,大概是 0.75 左右, 而 1975 年的为 3.5 左右。那么最接近的答案就是 E 8/35

NO 17

题目图见下一题;

The "combined age" of a group of people is the sum of the ages of all of the people in the group. Which of the following groups had the greatest combined age in 1986?

20-year-old males

20-year-old females

60-year-old females

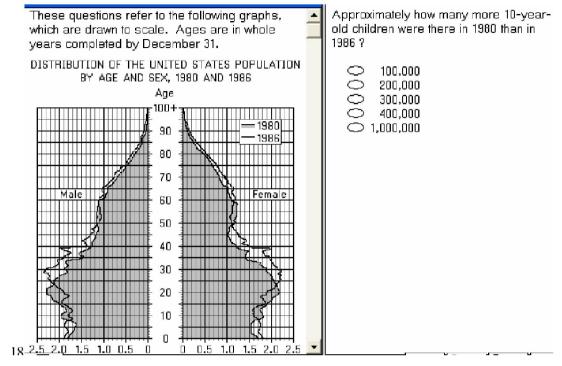
80-year-old females

翻译: combined age 是指这一组人年龄总和, 1986 年时哪组 combined age 最大?解答:根据题意可得,combined age=age* distribution(横坐标) 所以: 20 岁

male: 20*1.9=38; 60 岁 female: 60*1.2=72; 以此类推,答案为 D;



NO 18



解答: 先找到 10 year 的横线,对应的,一定要对应好线,有阴影的是 1980 的,没有的 1986 的。 在 10 year 的水平线上,都是阴影大于单线,也就是会所 1980 比 1986 多。然后就是数格数。。左右都是两格左右,所以加起来是四格不到一点,大概就是 0.4,选 D。

NO 19-20





	The population of females was greater in 1980 than in 1986 for approximately what percent of the ages from 0 to 100 years?
10	○ 15%○ 25%○ 55%○ 75%○ 85%
19	
@1	3
	In 1980 the ratio of the number of males to the number of females was greatest for which of the following ages?
	1030507090
20	
(a) A	A

解答: 这道题的意思就是在女性群体中,0-100 岁中 1980 比 1986 年多的年龄层占总体的百分之多少。那么就先看右边,然后是 1980 比 1986 多,那么就是阴影比单线多,看图上,是处于 8-23,49-59,大约是 15+10=25. 所以是 25%;

在 1980 年中,一下那个年龄层,男性人数比女性人数的值最高。因为是 1980 年,那么就是看阴影的,

Age	Male	Female	比例
10	2.0	1.8	>1
30	1.9	1.9	=1
50	1.2	1.2	=1
70	0.7	0.8	<1
90	0.1	0.1	=1
先A			

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http://www.sharewithu.com/thread-425567-1-2.html