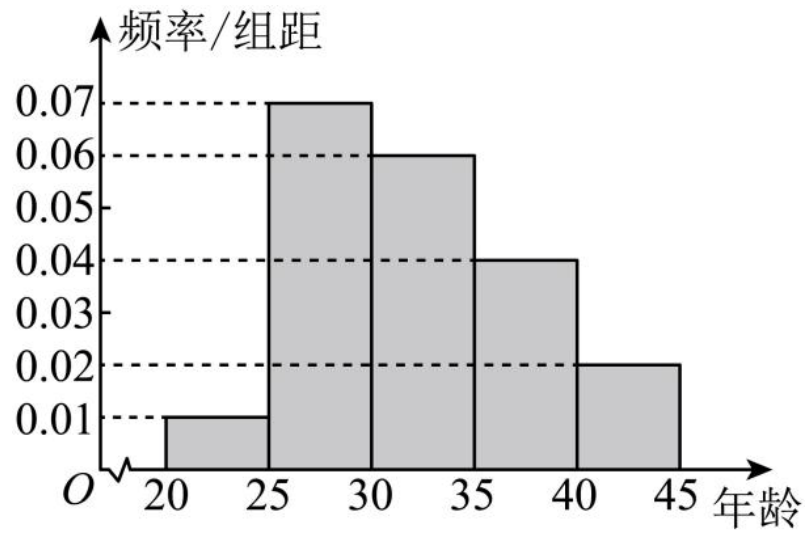


# 专题 8 统计与概率 (文科) 解答题 30 题

( 0 0 3 文科 题)  
0 00

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0

3 0 0  
3 0 0

3 0 概率

( 0 )

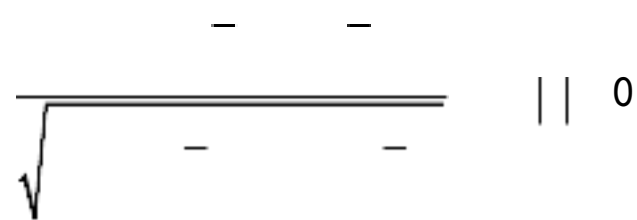
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		8	0	

0

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3 ( 0 0 3 文科 题)

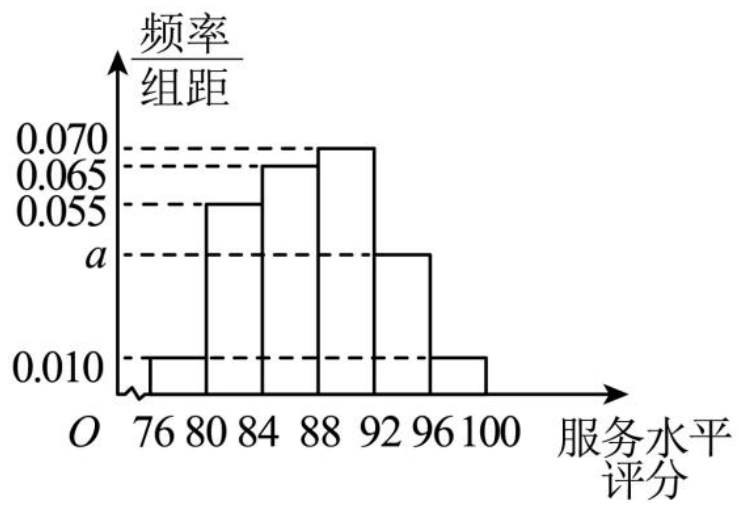
100

100

2×2

76,100

	25	45
	5	25



(1) 95%

(2) 92,96 96,100

5

5 3 3 2 92,96

2 \_\_\_\_\_ 2

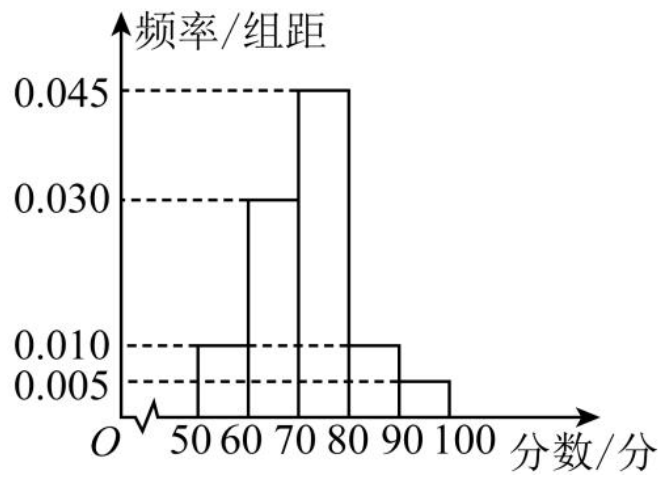
2 0	0.10	0.050	0.010
0	2.706	3.841	6.635

4 2022-2023 12

100

100

50,60 , 60,70 , 70,80 , 80,90 , 90,100 5



(1)

(2)

80,90    90,100

6                  6                  2                  2                  1

90,100

5

2022

2016

2020

	2016	2017	2018	2019	2020
	1	2	3	4	5
	442	456	472	488	498

$$\hat{\mu} = \frac{1}{n} \sum_{i=1}^n x_i = 0.9946$$

$$\hat{\sigma}^2 = \frac{1}{n} \sum_{i=1}^n x_i^2 - (\hat{\mu})^2 = 0.9568$$

(1)  $\hat{\mu} = \frac{1}{n} \sum_{i=1}^n x_i$      $\hat{\sigma}^2 = \frac{1}{n} \sum_{i=1}^n x_i^2 - (\hat{\mu})^2$

(2)

$$\frac{1}{n} \sum_{i=1}^n x_i^2 = \frac{2356}{5} = 471.2$$

$$\hat{\sigma}^2 = \frac{1}{n} \sum_{i=1}^n x_i^2 - (\hat{\mu})^2 = \frac{471.2}{5} - (0.9946)^2 = 94.24 - 0.9892 = 93.2508$$

6

2023

		4	
	14		

50

1

$\frac{4}{5}$

(1) 2 2

(2) 90%

$( \quad )^2$

$\begin{matrix} 2 \\ 0 \end{matrix}$	0.100	0.050	0.010	0.001
$\begin{matrix} 0 \\ 0 \end{matrix}$	2.706	3.841	6.635	10.828

7 2022

—

240

5

	1	2	3	4	5
	0.9	0.8	0.7	0.6	0.4

20

	1	2	3	4	5
	16	16	14	14	8

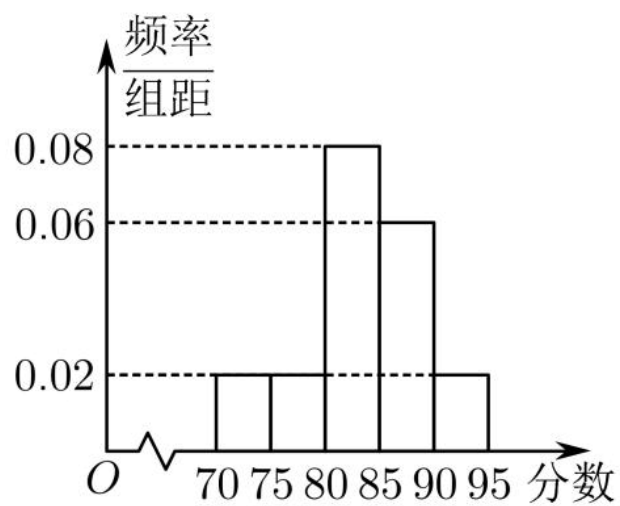
(1) 240 5

(2)  $\frac{1}{n_1} + \frac{2}{n_1} + \frac{2}{n_2} + \frac{2}{n_2}$ ,  
(=1 2 ... ). 0.05

8 2022

5000

[70,75),[75,80),[80,85),[85,90),[90,95]



(1)

(2) 13%

(3) 1 2

9 2023

FIFA World Cup

“ ”

.2022

32

64

200

	32	32	
	20	20	
	40		

(1)

(2)

32

“ ”

95%

“ ”

$\frac{2}{2}$

$\frac{2}{0}$	0.10	0.05	0.010	0.001
$\frac{0}{0}$	2.706	3.841	6.635	10.828

10

2022

5

200

20

	40,50	50,60	60,70	70,80	80,90	90,100
	10	20	50			20

(1)

200

0.1

(2)

50,60

80,90

6

6

3

3

2

80,90

11

2022-2023

10

“3+1+2”

“3”

3

“1”

2

1

“2”

4

2

(1)

750

100

	30		40

	50		100
--	----	--	-----

5

99.9%

“ ” “ ”

(2) “4 2”

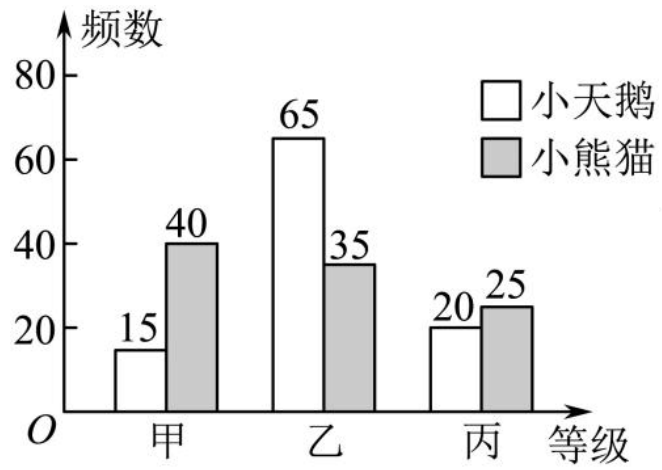
$$\chi^2 = \frac{( )^2}{( ) ( ) ( ) ( )}$$

$\chi^2$	0.10	0.05	0.025	0.010	0.005	0.001
$\chi^2_0$	2.706	3.841	5.024	6.635	7.879	10.828

12

2023

100



(1)

99.9%


(2)

90

60

$$t_{\alpha, n-2} = \frac{\bar{y} - \mu_0}{\frac{s}{\sqrt{n}}}$$

$t_{\alpha, n-2}$	0.15	0.10	0.05	0.01	0.005	0.001
$t_{\alpha, n-2}$	2.072	2.706	3.841	6.635	7.879	10.828

13

2023

1

1 2 3 4 5 6 6

5

3

3

5

2

3

1

30

1	3	1	1	6	3	3	4	1	2
4	1	2	5	3	1	2	6	3	1
6	1	2	1	2	2	5	3	4	5

(1)

1

3

2

(2)

3

1

1

14 2023

10

10.5,9.9,9.4,10.7,10.0,9.6,10.8,10.1,9.7,9.3

-

(1) -

(2)

- , -

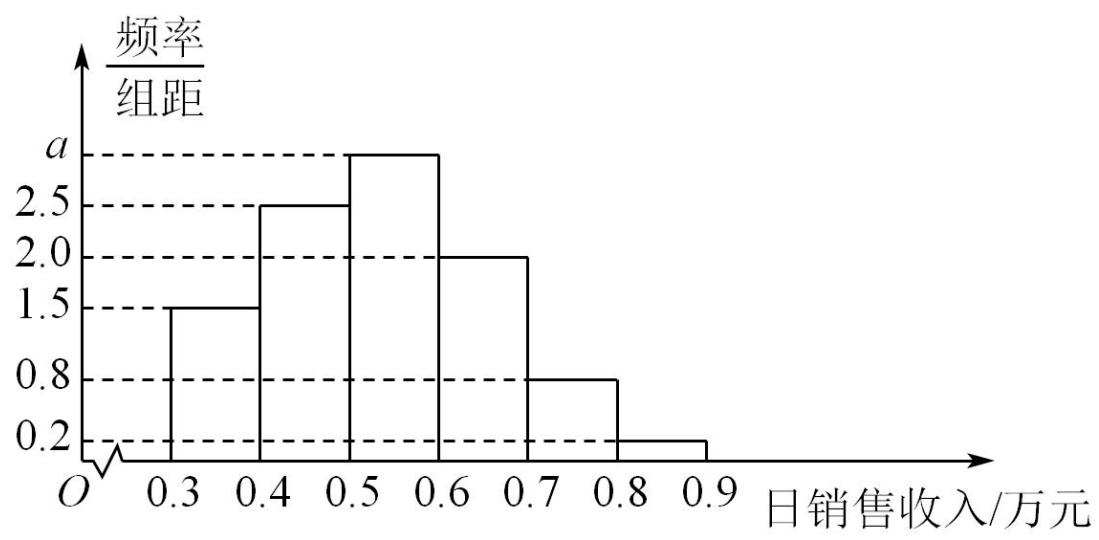
2

0.3

15

2022-2023





(1) 100

(2) 100 30 30 18

0.6 97.5%

0.6  
 $\frac{0.6}{2} = \frac{(\quad)^2}{2}$

$\chi^2_0$	0.050	0.025	0.010
$\chi^2_0$	3.841	5.024	6.635

16

2022

100

100

100

70,100

100

	70,75	75,80	80,85	85,90	90,95	95,100
	7	11	18	12	8	8

100

	70,75	75,80	80,85	85,90	90,95	95,100
	3	9	12	8	2	2

(1) 70,80 80,90 90,100

(2) 80 2 2

95%

			100

$$^2 \frac{(-)^2}{( ) ( ) ( ) ( )}$$

<sup>2</sup>	0.050	0.025	0.010	0.005	0.001
	3.841	5.024	6.635	7.879	10.828

17 2022-2023

2022 9 2

100

	60	70	80	90
	70	80	90	100]
	8	10	16	6
	7	15	25	13

80 “ ” “ ”

(1)100 “ ”

(2) 2×2 99% “ ”


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