

2018~2019学年广东广州越秀区广州市第十六中学初二上学期开学考试数学试卷

一、选择题

- 1 A 2 D 3 C 4 A 5 C 6 B 7 B 8 D 9 A 10 B

二、填空题

11 9.4×10^{-7}

12 $x \leq 2$

13 2

14 $4\sqrt{13}$

15 5

16 25

三、解答题

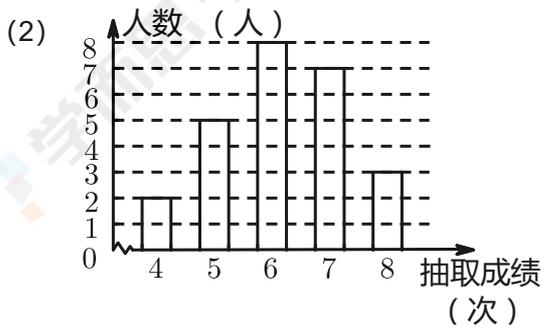
17 $3m(2x - y + n)(2x - y - n).$

18 证明见解析.

19 $a = 4$ 时, 原式 = 1.

20 (1) 1:25

2:6.16



(3) 90人.

21 (1) $C_1(-1, -1).$

(2) 5

(3) $P\left(0, \frac{7}{5}\right).$

22 (1) $W = \begin{cases} -10x + 9600, & 70 \leq x \leq 100 \\ -20x + 9600, & x > 100 \end{cases}$

(2) 1700.

(3) $a = 10.$

23 (1) $A\left(\frac{8}{7}, \frac{15}{7}\right), B(-1, 0), C(4, 0).$

(2) $D_3(0, 3), D_4(8, -3).$

(3) 存在. $\left(\frac{20}{7}, \frac{27}{7}\right)$ 或 $\left(-\frac{4}{7}, \frac{3}{7}\right).$

24 (1) 证明见解析.

(2) 90° .

(3) 6.

25 (1) 证明见解析.

(2) $\sqrt{2}$.

(3) $\frac{\sqrt{6} + \sqrt{2}}{2}$.

