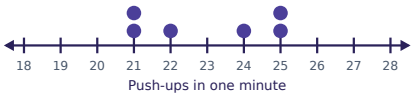
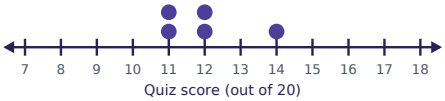
Task card 1 — Dot Plots: Standard Deviation

The dot plot shows the number of push-ups done in one minute for 6 students. Each dot stands for one student. The same data as a list: S = [21, 24, 25, 22, 21, 25]. The mean is 23. What is the population standard deviation of the data?



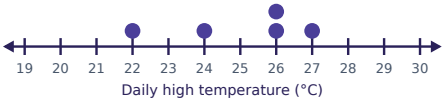
Task card 2 — Dot Plots: Standard Deviation

The dot plot shows the quiz score for 5 students. Each dot stands for one student. The same data as a list: S = [12, 11, 12, 11, 14]. The mean is 12. What is the population standard deviation of the data?



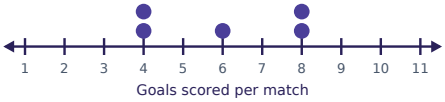
Task card 3 — Dot Plots: Standard Deviation

The dot plot shows the high temperature in °C for 5 days. Each dot stands for one day. The same data as a list: S = [26, 26, 27, 22, 24]. The mean is 25. What is the population standard deviation of the data?



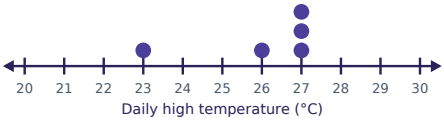
Task card 4 — Dot Plots: Standard Deviation

The dot plot shows the number of goals scored for 5 matches. Each dot stands for one match. The same data as a list: S = [4, 6, 8, 4, 8]. The mean is 6. What is the population standard deviation of the data?



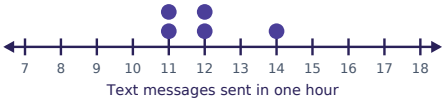
Task card 5 — Dot Plots: Standard Deviation

The dot plot shows the high temperature in °C for 5 days. Each dot stands for one day. The same data as a list: S = [27, 27, 23, 27, 26]. The mean is 26. What is the population standard deviation of the data?



Task card 6 — Dot Plots: Standard Deviation

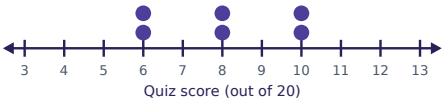
The dot plot shows the number of text messages sent in one hour for 5 teens. Each dot stands for one teen. The same data as a list: S = [11, 12, 14, 12, 11]. The mean is 12. What is the population standard deviation of the data?



Task card 7

Dot Plots: Standard Deviation

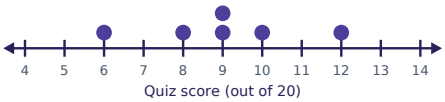
The dot plot shows the quiz score for 6 students. Each dot stands for one student. The same data as a list: S = [10, 6, 8, 8, 10, 6]. The mean is 8. What is the population standard deviation of the data?



Task card 8

Dot Plots: Standard Deviation

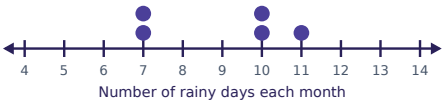
The dot plot shows the quiz score for 6 students. Each dot stands for one student. The same data as a list: S = [12, 10, 9, 6, 8, 9]. The mean is 9. What is the population standard deviation of the data?



Task card 9

Dot Plots: Standard Deviation

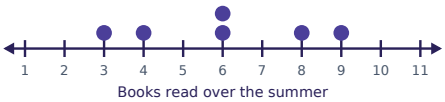
The dot plot shows the number of rainy days for 5 months. Each dot stands for one month. The same data as a list: S = [7, 7, 11, 10, 10]. The mean is 9. What is the population standard deviation of the data?



Task card 10

Dot Plots: Standard Deviation

The dot plot shows the number of books read over the summer for 6 students. Each dot stands for one student. The same data as a list: S = [8, 6, 6, 3, 4, 9]. The mean is 6. What is the population standard deviation of the data?



Task card 11

Dot Plots: Standard Deviation

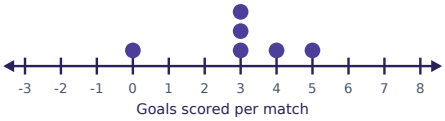
The dot plot shows the number of hours of sleep for 6 students. Each dot stands for one student. The same data as a list: S = [8, 11, 6, 7, 10, 6]. The mean is 8. What is the population standard deviation of the data?



Task card 12

Dot Plots: Standard Deviation

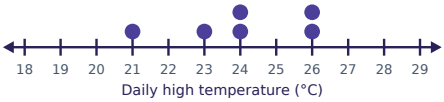
The dot plot shows the number of goals scored for 6 matches. Each dot stands for one match. The same data as a list: S = [5, 3, 4, 3, 3, 0]. The mean is 3. What is the population standard deviation of the data?



Task card 13

Dot Plots: Standard Deviation

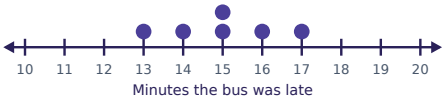
The dot plot shows the high temperature in °C for 6 days. Each dot stands for one day. The same data as a list: S = [23, 26, 21, 26, 24, 24]. The mean is 24. What is the population standard deviation of the data?



Task card 14

Dot Plots: Standard Deviation

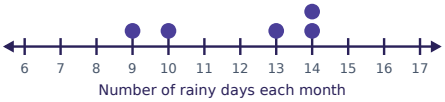
The dot plot shows the number of minutes the bus was late for 6 days. Each dot stands for one day. The same data as a list: S = [14, 17, 15, 13, 15, 16]. The mean is 15. What is the population standard deviation of the data?



Task card 15

Dot Plots: Standard Deviation

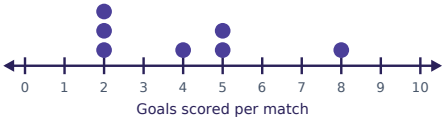
The dot plot shows the number of rainy days for 5 months. Each dot stands for one month. The same data as a list: S = [10, 14, 13, 14, 9]. The mean is 12. What is the population standard deviation of the data?



Task card 16

Dot Plots: Standard Deviation

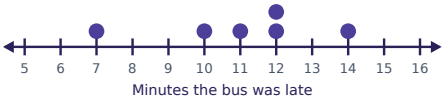
The dot plot shows the number of goals scored for 7 matches. Each dot stands for one match. The same data as a list: S = [2, 8, 4, 2, 5, 2, 5]. The mean is 4. What is the population standard deviation of the data?



Task card 17

Dot Plots: Standard Deviation

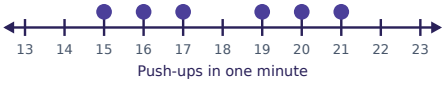
The dot plot shows the number of minutes the bus was late for 6 days. Each dot stands for one day. The same data as a list: S = [12, 12, 7, 10, 11, 14]. The mean is 11. What is the population standard deviation of the data?



Task card 18

Dot Plots: Standard Deviation

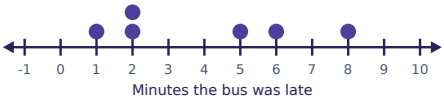
The dot plot shows the number of push-ups done in one minute for 6 students. Each dot stands for one student. The same data as a list: S = [19, 17, 16, 15, 21, 20]. The mean is 18. What is the population standard deviation of the data?



Task card 19

Dot Plots: Standard Deviation

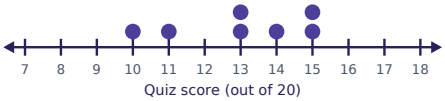
The dot plot shows the number of minutes the bus was late for 6 days. Each dot stands for one day. The same data as a list: S = [8, 2, 1, 6, 2, 5]. The mean is 4. What is the population standard deviation of the data?



Task card 20

Dot Plots: Standard Deviation

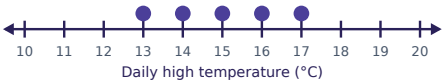
The dot plot shows the quiz score for 7 students. Each dot stands for one student. The same data as a list: S = [13, 11, 10, 15, 15, 13, 14]. The mean is 13. What is the population standard deviation of the data?



Task card 21

Dot Plots: Standard Deviation

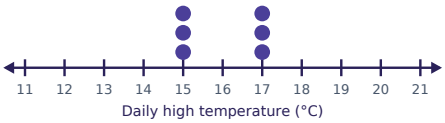
The dot plot shows the high temperature in °C for 5 days. Each dot stands for one day. The same data as a list: S = [14, 17, 13, 15, 16]. The mean is 15. What is the population standard deviation of the data?



Task card 22

Dot Plots: Standard Deviation

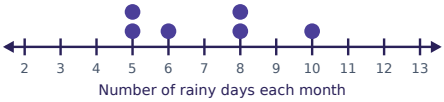
The dot plot shows the high temperature in °C for 6 days. Each dot stands for one day. The same data as a list: S = [17, 15, 17, 15, 15, 17]. The mean is 16. What is the population standard deviation of the data?



Task card 23

Dot Plots: Standard Deviation

The dot plot shows the number of rainy days for 6 months. Each dot stands for one month. The same data as a list: S = [6, 5, 5, 10, 8, 8]. The mean is 7. What is the population standard deviation of the data?



Task card 24

Dot Plots: Standard Deviation

The dot plot shows the number of text messages sent in one hour for 6 teens. Each dot stands for one teen. The same data as a list: S = [10, 14, 15, 15, 14, 10]. The mean is 13. What is the population standard deviation of the data?



Dot Plots: Standard Deviation Task Cards

Recording sheet · Grade 10 · Find the population standard deviation: divide the sum of the squared differences from the mean by n, the number of values, then take the square root. Round to the nearest tenth.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Dot Plots: Standard Deviation Task Cards: Answer Key

Grade 10 · Easy

The answers online

1. 1.7	**2.** 1.1	**3.** 1.8
4. 1.8	**5.** 1.5	**6.** 1.1
7. 1.6	**8.** 1.8	**9.** 1.7
10. 2.1	**11.** 1.9	**12.** 1.5
13. 1.7	**14.** 1.3	**15.** 2.1
16. 2.1	**17.** 2.2	**18.** 2.2
19. 2.5	**20.** 1.8	**21.** 1.4
22. 1.0	**23.** 1.8	**24.** 2.2