

Identify an outlier and decide how to treat it

NAME	DATE	SCORE / 10
------	------	------------

1 These numbers are in order: 15, 18, 21, 25, 26, 29, 31, 34, 35, 39, 40, 55. Using the $1.5 \times \text{IQR}$ test, which value is an outlier?

- ☐ 15
 ☐ 40
 ☐ There is no outlier
 ☐ 55

2 These numbers are in order: 12, 15, 16, 20, 21, 21, 23, 24, 27, 31, 34, 52. Using the $1.5 \times \text{IQR}$ test, is 52 an outlier?

- ☐ Yes
 ☐ No

3 These numbers are in order: 27, 39, 41, 43, 47, 49, 53, 56. Using the $1.5 \times \text{IQR}$ test, is 27 an outlier?

- ☐ Yes
 ☐ No

4 These numbers are in order: 25, 45, 47, 51, 54, 57, 59, 60, 61, 65, 66, 66. Using the $1.5 \times \text{IQR}$ test, which value is an outlier?

- ☐ 66
 ☐ 25
 ☐ There is no outlier
 ☐ 45

5 The list shows each runner's time in a fun run, in minutes: 17, 9, 7, 8, 9, 10, 10, 9. The runner who took 17 minutes fell and then finished the run. What should be done with the value 17?

- ☐ Change it so that it is close to the rest
 ☐ Remove it, since it is far from the rest
☐ Keep it, since it is a real result from the run
 ☐ Remove it, since it makes the mean larger

6 The list shows each student's height, in cm: 152, 154, 145, 159, 141, 155, 141, 15. What should be done with the value 15?

- ☐ Keep it as it is, since every value must be used
 - ☐ Replace it with the mean of the other values
 - ☐ Check it first, since it is likely a mistake in the record
 - ☐ Remove it, since it is the smallest value
-

7 Students in Grade 7 were asked how many hours they sleep each night: 9, 8, 8, 9, 9, 10, 8, 5. The answer of 5 came from a parent, not a student. What should be done with the value 5?

- ☐ Keep it, since every answer in a survey counts
 - ☐ Keep it, since it is not far from the rest
 - ☐ Change it so that it is close to the rest
 - ☐ Leave it out, since it is not from a Grade 7 student
-

8 These numbers are in order: 27, 38, 42, 44, 48, 49, 53, 55. Using the $1.5 \times \text{IQR}$ test, which value is an outlier?

- ☐ There is no outlier
 - ☐ 38
 - ☐ 27
 - ☐ 55
-

9 These numbers are in order: 17, 20, 23, 27, 29, 31, 33, 36, 36, 40, 41, 61. Using the $1.5 \times \text{IQR}$ test, which value is an outlier?

- ☐ 17
 - ☐ 61
 - ☐ 41
 - ☐ There is no outlier
-

10 These numbers are in order: 20, 20, 24, 24, 28, 31, 35, 52. Using the $1.5 \times \text{IQR}$ test, which value is an outlier?

- ☐ 52
- ☐ 35
- ☐ There is no outlier
- ☐ 20

Identify an outlier and decide how to treat it

1 There is no outlier

3 No

5 Keep it, since it is a real result from the run

7 Leave it out, since it is not from a Grade 7 student

9 61

2 Yes

4 25

6 Check it first, since it is likely a mistake in the record

8 There is no outlier

10 52