

Z-scores

Name _____

Date _____

Find the z-score. Round to two decimal places.

Problem	Answer	Problem	Answer
1. $x = 60, \mu = 40, \sigma = 11$		9. $x = 65, \mu = 58, \sigma = 20$	
2. $x = 105, \mu = 111, \sigma = 18$		10. $x = 120, \mu = 103, \sigma = 13$	
3. $x = 119, \mu = 117, \sigma = 12$		11. $x = 119, \mu = 98, \sigma = 17$	
4. $x = 90, \mu = 67, \sigma = 16$		12. $x = 47, \mu = 42, \sigma = 19$	
5. $x = 144, \mu = 119, \sigma = 5$		13. $x = 102, \mu = 91, \sigma = 20$	
6. $x = 50, \mu = 72, \sigma = 9$		14. $x = 40, \mu = 45, \sigma = 13$	
7. $x = 118, \mu = 100, \sigma = 19$		15. $x = 112, \mu = 117, \sigma = 12$	
8. $x = 104, \mu = 92, \sigma = 6$		16. $x = 128, \mu = 101, \sigma = 12$	

Notes

Answer key — Z-scores

#	Problem	Answer
1	$x = 60, \mu = 40, \sigma = 11$	1.82
2	$x = 105, \mu = 111, \sigma = 18$	-0.33
3	$x = 119, \mu = 117, \sigma = 12$	0.17
4	$x = 90, \mu = 67, \sigma = 16$	1.44
5	$x = 144, \mu = 119, \sigma = 5$	5
6	$x = 50, \mu = 72, \sigma = 9$	-2.44
7	$x = 118, \mu = 100, \sigma = 19$	0.95
8	$x = 104, \mu = 92, \sigma = 6$	2
9	$x = 65, \mu = 58, \sigma = 20$	0.35
10	$x = 120, \mu = 103, \sigma = 13$	1.31
11	$x = 119, \mu = 98, \sigma = 17$	1.24
12	$x = 47, \mu = 42, \sigma = 19$	0.26
13	$x = 102, \mu = 91, \sigma = 20$	0.55
14	$x = 40, \mu = 45, \sigma = 13$	-0.38
15	$x = 112, \mu = 117, \sigma = 12$	-0.42
16	$x = 128, \mu = 101, \sigma = 12$	2.25

Notes