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- e) $Mean = \frac{3+3+3+4+4+4+4+4+5+5+5+5+5+5+5+5+6+6+6+6+6+6+7+7+7+8+8}{26} = 5.23$ Mean ≈ 5
- f) Range of shoe sizes: 8-3 = 5 sizes (size 3, 4, 5, 6, 7, 8)
- g) No the results are not accurate, only 4% of the ladies in the area were surveyed, they could increase the sample size to at least 10% or 60 women. The results would also be more accurate if you took into account the size of specific shoes (eg: some people take their boots in a bigger size than their sandals). Or any other reasonable answer.
- 5. a) A 2 year old boy with a head circumference of 48,5cm is in the 50th percentile.
 - b) 53 cm circumference
 - c) You have a head circumference that is bigger than 50 % of boys your age and also smaller than 50 % of boys your age.
 - d) Median.
 - e) He is in the 3rd percentile.
 - f) Using only ten boys to draw up this chart would be an unfair test. You need to increase the sample size to at least 10 % of the population in every age category.
- 6. a) Median

h)

- b) $\frac{160}{4} = 40 \ players$
- c) Above 25,5
- d) $\frac{160}{4} = 40 \ players \ OR \ one \ quarter$
- e) Range: 54,4-0 = 54,4
- f) 48,4 is in the top quartile, so Jacques Kallis has a batting average better than at least
 75% or 120 of the other players.
- g) The maximum.

0	07			
1	1 1 6 9			
2	3589			
3	2 7			
4	09			
5	3			
6	1			
7	3			1
9	4			
10	28	∴6	$1 = 61 \ and \ 5$	3 = 53



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