

3-4

90th percentile

95th percentile

95%

5%

$P_{12.5}$
 15. 47 10th#

9 data values less than 47

$$\frac{9}{24} \cdot 100$$

$$37.5$$

38th percentile

19. P_{20} 20th percentile

$$L = \left(\frac{K}{100}\right)n \quad \begin{array}{l} P_K \\ n \text{ data values} \end{array}$$

$$L = \left(\frac{20}{100}\right)24$$

$$L = 4.8$$

Round up to 5
 Count in 5 numbers
 39

23. 50th percentile

$$L = \left(\frac{50}{100}\right)24$$

$$L = 12$$

$$53 \quad 54$$

$$53.5$$

Quartiles

36, 37, 37, 39, 39, 41, 43, 44, 44, 47, 50, 53, 53.5, 54, 55, 56, 56

51, 59, 61, 61, 65, 69, 69, 75

Median
 Min
 Q₁
 Lower Quartile
 Median
 Upper Quartile
 Q₃
 Max

