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Problem

Explanation

Show Another

Percentiles

QUESTION

The following are the P/E ratios (price of stock divided by projected earnings per share) for 17 banks.

22, 22, 34, 50, 22, 14, 34, 22, 29, 19, 18, 33, 35, 19, 18, 18, 28

Find 25th and 60th percentiles for these ratios.

(If necessary, consult a [list of formulas](#).)

① Put in order

14 18 18 18 ^{25th} 19 19 22 22 22 22 ^{60th} 23 29 29 34 38 43 50

② Use Formula

$n = \text{number of items} = 17$

$$n \cdot \frac{p}{100}$$

$p = \text{what percentile you are trying to find}$

25th

$$17 \cdot \frac{25}{100} = 17 \cdot .25 = 4.25$$

Round up = 5
Select the 5th number

60th

$$17 \cdot \frac{60}{100} = 17 \cdot .60 = 10.2$$

Round up = 11
Select the 11th number

$$n \cdot \frac{p}{100} \quad \text{On calculator: } n \cdot p \div 100$$

	A	B	C	D	E
1					
2	Data		What you are finding	Answer	Formula
3	22		25th Percentile	19	=PERCENTILE(A3:A19,0.25)
4	22				
5	29		60th Percentile	22.6	=PERCENTILE(A3:A19,0.60)
6	50				
7	22				
8	14				
9	34				
10	22				
11	29				
12	19				
13	18				
14	23				
15	43				
16	19				
17	18				
18	18				
19	38				

Excel finds it slightly differently so if you get a decimal, find the number right above it.

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