

NAME

QUARTER

GRADE & SECTION

DATE

Activity: Percentile of Grouped Data

Use the given grouped data to find the indicated decile.

1) Calculate the P35 of the scores of 20 students.

Complete the table with Lower Boundaries (LB) and Cumulative Frequency (cf)

| Scores | Frequency f | Lower Boundaries (LB) | Cumulative Frequency (cf) |
|---------|------------------|--------------------------|------------------------------|
| 41 – 50 | 2 | | |
| 31 – 40 | 5 | | |
| 21 – 30 | 2 | | |
| 11 – 20 | 7 | | |
| 1 – 10 | 4 | | |
| N | | | |

$i =$

Compute the P_{kth} class

$$\frac{kN}{100} = \frac{\quad}{\quad} = \quad$$

Find the class interval of P_k

The P35 class is class interval -

Lower Boundary of the P_k class

$LB =$

frequency of the P_k class

$f_{P_k} =$

cumulative frequency of the class before the P_k class

$cf_b =$

Find the value of P_k

$$P_k = LB + \left(\frac{\frac{kN}{100} - cf_b}{f_{P_k}} \right) i$$

$P_{35} =$

Round off to two decimal places.

Interpretation

Therefore, % of the students have a score

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LIVEWORKSHEETS

2) Calculate the P85 of the height of 40 junior high school students.

Complete the table with Lower Boundaries (LB) and Cumulative Frequency (cf)

| Height in cm | Frequency f | Lower Boundaries (LB) | Cumulative Frequency (cf) |
|-----------------|------------------|-----------------------------|-------------------------------------|
| 166 – 170 | 3 | | |
| 161 – 165 | 8 | | |
| 156 – 160 | 9 | | |
| 151 – 155 | 11 | | |
| 146 – 150 | 3 | | |
| 141 – 145 | 6 | | |
| N | | | |

 $i = \square$

| | | |
|-----------------------------|--|---|
| Compute the P_{kth} class | | |
| kN | | : |

$$\frac{kN}{\text{mm}^2} = \frac{\text{mm}^2 \cdot \text{mm}^2}{\text{mm}^2}$$

Find the class interval of P_k

The P_4 class is

The P6 class is class interval
 -

$$\square - \square =$$

Lower
Boundary of
the P_k class

$LB =$

frequency of
the P_k class

$$f_{Pk} = \boxed{}$$

cumulative
frequency of the
class before the
 P_k class

$$cf_b = \boxed{}$$

Find the value of P_k

$$P_k = LB + \left(\frac{\frac{kN}{10} - cf_b}{f_{P_k}} \right) i$$

$$P_{85} = \boxed{}$$

Round off to two decimal places.

$P_{85} =$

Round off to two decimal places.

Round off to two decimal places.

| Interpretation | |
|----------------|-----|
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 7 |
| 8 | 8 |
| 9 | 9 |
| 10 | 10 |
| 11 | 11 |
| 12 | 12 |
| 13 | 13 |
| 14 | 14 |
| 15 | 15 |
| 16 | 16 |
| 17 | 17 |
| 18 | 18 |
| 19 | 19 |
| 20 | 20 |
| 21 | 21 |
| 22 | 22 |
| 23 | 23 |
| 24 | 24 |
| 25 | 25 |
| 26 | 26 |
| 27 | 27 |
| 28 | 28 |
| 29 | 29 |
| 30 | 30 |
| 31 | 31 |
| 32 | 32 |
| 33 | 33 |
| 34 | 34 |
| 35 | 35 |
| 36 | 36 |
| 37 | 37 |
| 38 | 38 |
| 39 | 39 |
| 40 | 40 |
| 41 | 41 |
| 42 | 42 |
| 43 | 43 |
| 44 | 44 |
| 45 | 45 |
| 46 | 46 |
| 47 | 47 |
| 48 | 48 |
| 49 | 49 |
| 50 | 50 |
| 51 | 51 |
| 52 | 52 |
| 53 | 53 |
| 54 | 54 |
| 55 | 55 |
| 56 | 56 |
| 57 | 57 |
| 58 | 58 |
| 59 | 59 |
| 60 | 60 |
| 61 | 61 |
| 62 | 62 |
| 63 | 63 |
| 64 | 64 |
| 65 | 65 |
| 66 | 66 |
| 67 | 67 |
| 68 | 68 |
| 69 | 69 |
| 70 | 70 |
| 71 | 71 |
| 72 | 72 |
| 73 | 73 |
| 74 | 74 |
| 75 | 75 |
| 76 | 76 |
| 77 | 77 |
| 78 | 78 |
| 79 | 79 |
| 80 | 80 |
| 81 | 81 |
| 82 | 82 |
| 83 | 83 |
| 84 | 84 |
| 85 | 85 |
| 86 | 86 |
| 87 | 87 |
| 88 | 88 |
| 89 | 89 |
| 90 | 90 |
| 91 | 91 |
| 92 | 92 |
| 93 | 93 |
| 94 | 94 |
| 95 | 95 |
| 96 | 96 |
| 97 | 97 |
| 98 | 98 |
| 99 | 99 |
| 100 | 100 |

Therefore, % of the students has a height of cm.

How many attempts? ____.

How well did you do?



Need help!



Just OK!



Splendid

I KNOW THAT...