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

$\frac{kN}{__} = \frac{__ \cdot __}{__}$

$= __$

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

$f_{Pk} =$ ____

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			

$i =$ ____

Compute the P_{kth} class

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

$= \quad$

Find the class interval of P_k

The P6 class is class interval

____ - ____

Lower Boundary of the P_k class

$LB =$ ____

frequency of the P_k class

$f_{Pk} =$ ____

cumulative frequency of the class before the P_k class

$cf_b =$ ____

Find the value of P_k

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

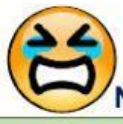
$P_{85} =$ ____

Round off to two decimal places.

Interpretation

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…

_____

_____

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LIVEWORKSHEETS