Find the **modal** and median class from grouped tables

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Name:

Find the modal class and median class from the following grouped frequency tables:

a)

Age	Frequency
$0 < x \leq 10$	5
$10 < x \leq 20$	10
$20 < x \leq 30$	15
$30 < x \leq 40$	14
$40 < x \leq 50$	10
$50 < x \leq 60$	8

Modal class : $20 < x \leq 30$

Median class : $30 < x \leq 40$

b)

Time	Frequency
$0 < x \leq 2$	4
$2 < x \leq 4$	12
$4 < x \leq 6$	8
$6 < x \leq 8$	16
$8 < x \leq 10$	5
$10 < x \leq 12$	7

Modal class : $6 < x \leq 8$

Median class : $6 < x \leq 8$

c)

Weight	Frequency
$5 < x \leq 10$	10
$10 < x \leq 15$	18
$15 < x \leq 20$	8
$20 < x \leq 25$	12
$25 < x \leq 30$	20
$30 < x \leq 35$	6

Modal class : $25 < x \leq 32$

Median class : $20 < x \leq 25$

d)

Speed	Frequency
$10 < x \leq 12$	24
$12 < x \leq 14$	10
$14 < x \leq 16$	6
$16 < x \leq 18$	2
$18 < x \leq 20$	4
$20 < x \leq 22$	3

Modal class : $10 < x \leq 12$

Median class : $12 < x \leq 14$

e)

Height	Frequency
$70 < x \leq 74$	6
$74 < x \leq 78$	12
$78 < x \leq 82$	4
$82 < x \leq 86$	16
$86 < x \leq 90$	8
$90 < x \leq 94$	6
$94 < x \leq 98$	18

Modal class : $94 < x \leq 98$

Median class : $82 < x \leq 86$

f)

Size	Frequency
$0 < x \leq 2$	0
$2 < x \leq 4$	1
$4 < x \leq 6$	2
$6 < x \leq 8$	8
$8 < x \leq 10$	16
$10 < x \leq 12$	21
$12 < x \leq 14$	15

Modal class : $10 < x \leq 12$

Median class : $10 < x \leq 12$

g)

Length	Frequency
$16 < x \leq 22$	3
$22 < x \leq 28$	9
$28 < x \leq 34$	8
$34 < x \leq 40$	21
$40 < x \leq 46$	8
$46 < x \leq 52$	28
$52 < x \leq 58$	6

Modal class : $46 < x \leq 52$

Median class : $40 < x \leq 46$

h)

Volume	Frequency
$20 < x \leq 30$	24
$30 < x \leq 40$	19
$40 < x \leq 50$	27
$50 < x \leq 60$	16
$60 < x \leq 80$	10
$70 < x \leq 90$	14
$80 < x \leq 100$	31

Modal class : $80 < x \leq 100$

Median class : $50 < x \leq 60$

Exam question:

50 painters painted a wall. The time they took in minutes was recorded. The table shows the results.

Time (m)	Frequency
$0 < x \leq 10$	3
$10 < x \leq 20$	12
$20 < x \leq 30$	20
$30 < x \leq 40$	10
$40 < x \leq 50$	3
$50 < x \leq 60$	2

a) Write down the modal class.

$20 < x \leq 30$