

Estimating the Mean from a Grouped Frequency Table

For each table, calculate an estimate for the mean mass.

1.

Mass, x (kg)	Frequency
$0 < x \leq 10$	1
$10 < x \leq 20$	2
$20 < x \leq 30$	4
$30 < x \leq 40$	3

6.

Mass, x (kg)	Frequency
$0 < x \leq 5$	20
$5 < x \leq 10$	1
$10 < x \leq 15$	8
$15 < x \leq 20$	6

2.

Mass, x (kg)	Frequency
$0 < x \leq 10$	2
$10 < x \leq 20$	4
$20 < x \leq 30$	8
$30 < x \leq 40$	6

7.

Mass, x (kg)	Frequency
$0 < x \leq 5$	20
$5 < x \leq 10$	1
$10 < x \leq 15$	8
$15 < x \leq 20$	21

3.

Mass, x (kg)	Frequency
$0 < x \leq 10$	20
$10 < x \leq 20$	4
$20 < x \leq 30$	8
$30 < x \leq 40$	6

8.

Mass, x (kg)	Frequency
$0 < x \leq 5$	20
$5 < x \leq 10$	1
$10 < x \leq 15$	8
$15 < x \leq 35$	21

4.

Mass, x (kg)	Frequency
$0 < x \leq 10$	20
$10 < x \leq 20$	20
$20 < x \leq 30$	8
$30 < x \leq 40$	6

9.

Mass, x (kg)	Frequency
$0 < x \leq 10$	20
$10 < x \leq 20$	1
$20 < x \leq 30$	8
$30 < x \leq 70$	21

5.

Mass, x (kg)	Frequency
$0 < x \leq 10$	20
$10 < x \leq 20$	1
$20 < x \leq 30$	8
$30 < x \leq 40$	6

10.

Mass, x (kg)	Frequency
$1 < x \leq 11$	20
$11 < x \leq 21$	1
$21 < x \leq 31$	8
$31 < x \leq 71$	21

Estimating the Mean from a Grouped Frequency Table: ANSWERS

1.

Mass, x (kg)	Frequency
$0 < x \leq 10$	1
$10 < x \leq 20$	2
$20 < x \leq 30$	4
$30 < x \leq 40$	3

24kg

6.

Mass, x (kg)	Frequency
$0 < x \leq 5$	20
$5 < x \leq 10$	1
$10 < x \leq 15$	8
$15 < x \leq 20$	6

7.5kg

2.

Mass, x (kg)	Frequency
$0 < x \leq 10$	2
$10 < x \leq 20$	4
$20 < x \leq 30$	8
$30 < x \leq 40$	6

24kg

7.

Mass, x (kg)	Frequency
$0 < x \leq 5$	20
$5 < x \leq 10$	1
$10 < x \leq 15$	8
$15 < x \leq 20$	21

10.5kg

3.

Mass, x (kg)	Frequency
$0 < x \leq 10$	20
$10 < x \leq 20$	4
$20 < x \leq 30$	8
$30 < x \leq 40$	6

15kg

8.

Mass, x (kg)	Frequency
$0 < x \leq 5$	20
$5 < x \leq 10$	1
$10 < x \leq 15$	8
$15 < x \leq 35$	21

13.65kg

4.

Mass, x (kg)	Frequency
$0 < x \leq 10$	20
$10 < x \leq 20$	20
$20 < x \leq 30$	8
$30 < x \leq 40$	6

15kg

9.

Mass, x (kg)	Frequency
$0 < x \leq 10$	20
$10 < x \leq 20$	1
$20 < x \leq 30$	8
$30 < x \leq 70$	21

27.5kg

5.

Mass, x (kg)	Frequency
$0 < x \leq 10$	20
$10 < x \leq 20$	1
$20 < x \leq 30$	8
$30 < x \leq 40$	6

15kg

10.

Mass, x (kg)	Frequency
$1 < x \leq 11$	20
$11 < x \leq 21$	1
$21 < x \leq 31$	8
$31 < x \leq 71$	21

28.5kg