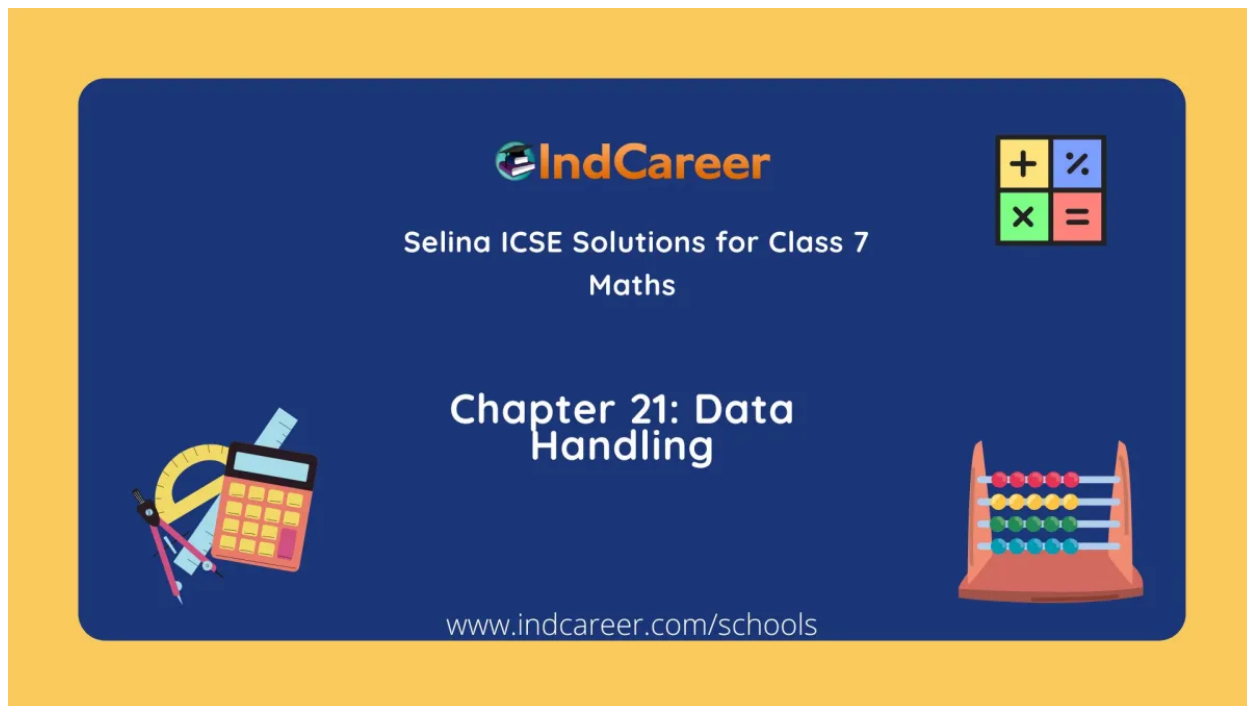


Selina Class 7 ICSE Solutions Mathematics : Chapter 21- Data Handling



For any clarifications or questions you can write to **info@indcareer.com**

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Selina Class 7 ICSE Solutions Mathematics :

Chapter 21- Data Handling

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Selina Class 7 ICSE Solutions Mathematics : Chapter 21- Data Handling

Selina 7th Maths Chapter 21, Class 7 Maths Chapter 21 solutions

Exercise 21A page: 234

1. Consider the following numbers:

68, 76, 63, 75, 93, 83, 70, 115, 82, 105, 90, 103, 92, 52, 99, 73, 75, 63, 77 and 71.

(i) Arrange these numbers in ascending order.

(ii) What is the range of these numbers?

Solution:

(i) We can write the above numbers in ascending order as

52, 63, 63, 68, 70, 71, 73, 75, 75, 76, 77, 82, 83, 90, 92, 93, 99, 103, 105, 115

(ii) We know that

Range of these numbers = largest number – smallest number

So we get

= 115 – 52

= 63

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2. Represent the following data in the form of a frequency distribution table :

16, 17, 21, 20, 16, 20, 16, 18, 17, 21, 17, 18, 19, 17, 15, 15, 19, 19, 18, 17, 17, 15, 15, 16, 17, 17, 19, 18, 17, 16, 15, 20, 16, 17, 19, 18, 19, 16, 21 and 17.

Solution:

The data can be represented in the form of a frequency distribution table as:

Numbers	Tally marks	Frequency
15	HHH	5
16	HHH II	7
17	HHH HHH I	11
18	HHH	5
19	HHH I	6
20	III	3
21	III	3
Total		40

3. A die was thrown 20 times and following scores were recorded.

2, 1, 5, 2, 4, 3, 6, 1, 4, 2, 5, 1, 6, 2, 6, 3, 5, 4, 1 and 3.

Prepare a frequency table for the scores.

Solution:

The frequency table for the scores can be given as:

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No. of thrown dies	Tally marks	Frequency
1	IIII	4
2	IIII	4
3	III	3
4	III	3
5	III	3
6		3
Total		20

4. Following data shows the weekly wages (in ₹) of 10 workers in a factory.

3500, 4250, 4000, 4250, 4000, 3750, 4750, 4000, 4250 and 4000

(i) Prepare a frequency distribution table.

(ii) What is the range of wages (in ₹)?

(iii) How many workers are getting the maximum wages?

Solution:

(i) The frequency distribution table for weekly wages of 10 workers can be given as:

Weekly wages (in ₹)	Tally marks	Frequency
---------------------	-------------	-----------

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3500	I	1
3750	I	1
4000	IIII	4
4250	III	3
4750	I	1
Total		10

(ii) Range of wages = $4750 - 3500 = ₹ 1250$

(iii) One worker is getting the minimum wages.

5. The marks obtained by 40 students of a class are given below :

80, 10, 30, 70, 60, 50, 50, 40, 40, 20, 40, 90, 50, 30, 70, 10, 60, 50, 20, 70, 70, 30, 80, 40, 20, 80, 90, 50, 80, 60, 70, 40, 50, 60, 90, 60, 40, 40, 60 and 60

(i) Construct a frequency distribution table.

(ii) Find how many students have marks equal to or more than 70?

(iii) How many students obtained marks below 40?

Solution:

(i) The frequency distribution table is as given below:

Numbers	Tally marks	Frequency
---------	-------------	-----------

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10	II	2
20	III	3
30	III	3
40	III II	7
50	III I	6
60	III II	7
70	III	5
80	IIII	4
90	III	3
Total		40

(ii) Students having marks equal to or more than 70 = $5 + 4 + 3 = 12$

(iii) Students obtained marks below 40 = $2 + 3 + 3 = 8$ students

6. Arrange the following data in descending order:

3.3, 3.2, 3.1, 3.7, 3.6, 4.0, 3.5, 3.9, 3.8, 4.1, 3.5, 3.8, 3.7, 3.9 and 3.4.

(i) Determine the range.

(ii) How many numbers are less than 3.5?

(iii) How many numbers are 3.8 or above?

Solution:

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We can write the given data in descending order

4.1, 4.0, 3.9, 3.9, 3.8, 3.7, 3.7, 3.6, 3.5, 3.5, 3.4, 3.3, 3.2, 3.1

(i) Range = $4.1 - 3.1 = 1.0$

(ii) Numbers less than 3.5 = 4

(3.4, 3.3, 3.2, 3.1)

(iii) Number are 3.8 or above = 6

(3.8, 3.8, 3.9, 3.9, 4.0, 4.1)

Exercise 21B page: 239

1. Find the mean of 53, 61, 60, 67 and 64.

Solution:

The given numbers are 53, 61, 60, 67 and 64

We know that $n = 5$

So Mean = $(53 + 61 + 60 + 67 + 64) / 5$

By further calculation

= $305 / 5$

= 61

2. Find the mean of first six natural numbers.

Solution:

Here the first six natural numbers are 1, 2, 3, 4, 5, 6

We know that $n = 6$

So Mean = $(1 + 2 + 3 + 4 + 5 + 6) / 6$

By further calculation

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$$= 21/6$$

$$= 3.5$$

3. Find the mean of first ten odd natural numbers.

Solution:

Here the first ten odd natural numbers are 1, 3, 5, 7, 9, 11, 13, 15, 17, 19

We know that $n = 10$

$$\text{So Mean} = (1 + 3 + 5 + 7 + 9 + 11 + 13 + 15 + 17 + 19) / 10$$

By further calculation

$$= 100/10$$

$$= 10$$

4. Find the mean of all factors of 10.

Solution:

Here the factors of 10 are 2 and 5

We know that $n = 2$

$$\text{So Mean} = (2 + 5) / 2$$

By further calculation

$$= 7/2$$

$$= 3.5$$

5. Find the mean of $x + 3$, $x + 5$, $x + 7$, $x + 9$ and $x + 11$.

Solution:

The given terms are $x + 3$, $x + 5$, $x + 7$, $x + 9$ and $x + 11$

We know that $n = 5$

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$$\text{So Mean} = [(x + 3) + (x + 5) + (x + 7) + (x + 9) + (x + 11)] / 5$$

By further calculation

$$= (5x + 35) / 5$$

Taking 5 as common

$$= [5(x + 7)] / 5$$

$$= x + 7$$

6. If different values of variable x are 19.8, 15.4, 13.7, 11.71, 11.8, 12.6, 12.8, 18.6, 20.5 and 21.1, find the mean.

Solution:

The given values are 19.8, 15.4, 13.7, 11.71, 11.8, 12.6, 12.8, 18.6, 20.5 and 21.1

We know that $n = 10$

$$\text{So Mean} = (19.8 + 15.4 + 13.7 + 11.71 + 11.8 + 12.6 + 12.8 + 18.6 + 20.5 + 21.1) / 10$$

By further calculation

$$= 158.01 / 10$$

$$= 15.801$$

7. The mean of a certain number of observations is 32. Find the resulting mean, if each observation is,

(i) increased by 3

(ii) decreased by 7

(iii) multiplied by 2

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(iv) divided by 0.5

(v) increased by 60%

(vi) decreased by 20%

Solution:

(i) Increased by 3

Here the observed mean = 32

When increased by 3

The resulting mean = $32 + 3 = 35$

(ii) Decreased by 7

Here the observed mean = 32

When decreased by 7

The resulting mean = $32 - 7 = 25$

(iii) Multiplied by 2

Here the observed mean = 32

When multiplied by 2

The resulting mean = $32 \times 2 = 64$

(iv) Divided by 0.5

Here the observed mean = 32

When divided by 0.5

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The resulting mean = $32/0.5 = 64$

(v) Increased by 60%

Here the observed mean = 32

When increased by 60%

The resulting mean = $32 + 60/100$

Taking LCM

$$= (3200 + 60)/100$$

$$= 3260/100$$

$$= 32.6$$

(vi) Decreased by 20%

Here the observed mean = 32

When decreased by 20%

The resulting mean = $32 - 20/100$

Taking LCM

$$= (3200 - 20)/100$$

$$= 3180/100$$

$$= 31.8$$

8. The pocket expenses (per day) of Anuj, during a certain week, from Monday to Saturday were ₹85.40, ₹88.00, ₹86.50, ₹84.75, ₹82.60 and ₹87.25. Find the mean pocket expenses per day.

Solution:

It is given that the pocket expenses (per day) during a certain week are

₹85.40, ₹88.00, ₹86.50, ₹84.75, ₹82.60 and ₹87.25

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We know that $n = 6$

So the mean pocket expenses per day = $(85.40 + 88.00 + 86.50 + 84.75 + 82.60 + 87.25) / 6$

By further calculation

$$= 514.5/6$$

$$= ₹85.75$$

Hence, the mean pocket expenses per day are ₹85.75.

9. If the mean of 8, 10, 7, $x + 2$ and 6 is 9, find the value of x .

Solution:

It is given that

Mean of 8, 10, 7, $x + 2$ and 6 is 9

We can write it as

$$(8 + 10 + 7 + x + 2 + 6) / 6 = 9$$

By further calculation

$$(x + 33) / 6 = 9$$

So we get

$$x + 33 = 9 \times 6$$

$$x = 54 - 33 = 21$$

10. Find the mean of first six multiples of 3.

Solution:

We know that the first six multiples of 3 are 3, 6, 9, 12, 15, 18

Here $n = 6$

$$\text{So mean} = (3 + 6 + 9 + 12 + 15 + 18) / 6$$

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By further calculation

$$= 63/6$$

$$= 10.5$$

11. Find the mean of first five prime numbers.

Solution:

Here the first five prime numbers are 2, 3, 5, 7, 11

We know that $n = 5$

$$\text{So Mean} = (2 + 3 + 5 + 7 + 11)/5$$

By further calculation

$$= 28/5$$

$$= 5 \frac{3}{5}$$

$$= 5.6$$

12. The mean of six numbers: $x-5$, $x-1$, x , $x+2$, $x+4$ and $x+12$ is 15. Find the mean of first four numbers.

Solution:

It is given that the mean of six numbers $x-5$, $x-1$, x , $x+2$, $x+4$ and $x+12$ is 15

$$\text{So Mean} = [(x-5) + (x-1) + x + (x+2) + (x+4) + (x+12)]/6$$

By further calculation

$$15 = (x-5 + x-1 + x + x+2 + x+4 + x+12)/6$$

So we get

$$15 = (12 + 6x)/6$$

By cross multiplication

$$12 + 6x = 90$$

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$$6x = 90 - 12 = 78$$

$$x = 78/6 = 13$$

So the six numbers are $(13 - 5)$, $(13 - 1)$, 13 , $(13 + 2)$, $(13 + 4)$, $(13 + 12) = 8, 12, 13, 15, 17, 25$

Here the mean of first four numbers $= (8 + 12 + 13 + 15)/4 = 48/4 = 12$

13. Find the mean of squares of first five whole numbers.

Solution:

Here the first five whole numbers are $0, 1, 2, 3, 4$

So the square of whole numbers $= 0^2, 1^2, 2^2, 3^2, 4^2 = 0, 1, 4, 9, 16$

We know that $n = 5$

So Mean $= (0 + 1 + 4 + 9 + 16)/5$

By further calculation

$$= 30/5$$

$$= 6$$

14. If the mean of $6, 4, 7, p$ and 10 is 8 , find the value of p .

Solution:

It is given that the mean of $6, 4, 7, p$ and 10 is 8

So Mean $= (6 + 4 + 7 + p + 10)/5$

By further calculation

$$(27 + p)/5 = 8$$

So we get

$$27 + p = 40$$

$$p = 40 - 27 = 13$$

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15. Find the mean of first six multiples of 5.

Solution:

Here the first six multiples of 5 are 5, 10, 15, 20, 25 and 30

We know that $n = 6$

$$\text{So Mean} = (5 + 10 + 15 + 20 + 25 + 30) / 6$$

By further calculation

$$= 105/6$$

$$= 17.5$$

Exercise 21B page: 239

1. Find the mean of 53, 61, 60, 67 and 64.

Solution:

The given numbers are 53, 61, 60, 67 and 64

We know that $n = 5$

$$\text{So Mean} = (53 + 61 + 60 + 67 + 64) / 5$$

By further calculation

$$= 305/5$$

$$= 61$$

2. Find the mean of first six natural numbers.

Solution:

Here the first six natural numbers are 1, 2, 3, 4, 5, 6

We know that $n = 6$

$$\text{So Mean} = (1 + 2 + 3 + 4 + 5 + 6) / 6$$

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By further calculation

$$= 21/6$$

$$= 3.5$$

3. Find the mean of first ten odd natural numbers.

Solution:

Here the first ten odd natural numbers are 1, 3, 5, 7, 9, 11, 13, 15, 17, 19

We know that $n = 10$

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$$= 100/10$$

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We know that $n = 5$

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$$= (5x + 35) / 5$$

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(iii) multiplied by 2

(iv) divided by 0.5

(v) increased by 60%

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(vi) decreased by 20%

Solution:

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When increased by 3

The resulting mean = $32 + 3 = 35$

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When decreased by 7

The resulting mean = $32 - 7 = 25$

(iii) Multiplied by 2

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When multiplied by 2

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(iv) Divided by 0.5

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When increased by 60%

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Taking LCM

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$$= 514.5/6$$

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We can write it as

$$(8 + 10 + 7 + x + 2 + 6) / 6 = 9$$

By further calculation

$$(x + 33) / 6 = 9$$

So we get

$$x + 33 = 9 \times 6$$

$$x = 54 - 33 = 21$$

10. Find the mean of first six multiples of 3.

Solution:

We know that the first six multiples of 3 are 3, 6, 9, 12, 15, 18

Here $n = 6$

$$\text{So mean} = (3 + 6 + 9 + 12 + 15 + 18) / 6$$

By further calculation

$$= 63 / 6$$

$$= 10.5$$

11. Find the mean of first five prime numbers.

Solution:

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Here the first five prime numbers are 2, 3, 5, 7, 11

We know that $n = 5$

$$\text{So Mean} = (2 + 3 + 5 + 7 + 11) / 5$$

By further calculation

$$= 28/5$$

$$= 5 \frac{3}{5}$$

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12. The mean of six numbers: $x-5$, $x-1$, x , $x+2$, $x+4$ and $x+12$ is 15. Find the mean of first four numbers.

Solution:

It is given that the mean of six numbers $x-5$, $x-1$, x , $x+2$, $x+4$ and $x+12$ is 15

$$\text{So Mean} = [(x - 5) + (x - 1) + x + (x + 2) + (x + 4) + (x + 12)] / 6$$

By further calculation

$$15 = (x - 5 + x - 1 + x + x + 2 + x + 4 + x + 12) / 6$$

So we get

$$15 = (12 + 6x) / 6$$

By cross multiplication

$$12 + 6x = 90$$

$$6x = 90 - 12 = 78$$

$$x = 78/6 = 13$$

So the six numbers are $(13 - 5)$, $(13 - 1)$, 13, $(13 + 2)$, $(13 + 4)$, $(13 + 12) = 8, 12, 13, 15, 17, 25$

Here the mean of first four numbers $= (8 + 12 + 13 + 15) / 4 = 48/4 = 12$

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13. Find the mean of squares of first five whole numbers.

Solution:

Here the first five whole numbers are 0, 1, 2, 3, 4

So the square of whole numbers = $0^2, 1^2, 2^2, 3^2, 4^2 = 0, 1, 4, 9, 16$

We know that $n = 5$

So Mean = $(0 + 1 + 4 + 9 + 16) / 5$

By further calculation

$$= 30/5$$

$$= 6$$

14. If the mean of 6, 4, 7, p and 10 is 8, find the value of p.

Solution:

It is given that the mean of 6, 4, 7, p and 10 is 8

So Mean = $(6 + 4 + 7 + p + 10) / 5$

By further calculation

$$(27 + p) / 5 = 8$$

So we get

$$27 + p = 40$$

$$p = 40 - 27 = 13$$

15. Find the mean of first six multiples of 5.

Solution:

Here the first six multiples of 5 are 5, 10, 15, 20, 25 and 30

We know that $n = 6$

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So Mean = $(5 + 10 + 15 + 20 + 25 + 30) / 6$

By further calculation

= $105/6$

= 17.5



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