

Worksheet 2 |

Lower Secondary
Stage (6-8)

1st Semester | 2023-2024

Subject: Math

Chapter: 1

Objectives:

- To revise significant figures

Q1) Indicate how many significant figures there are in each of the following measured values.

246.32	<u>5 S.F.</u>	1.008	<u>4 S.F.</u>	700000	<u>1 S.F.</u>
107.854	<u>6 S.F.</u>	0.00340	<u>3 S.F.</u>	350.670	<u>6 S.F.</u>
100.3	<u>4 S.F.</u>	14.600	<u>5 S.F.</u>	1.0000	<u>5 S.F.</u>
0.678	<u>3 S.F.</u>	0.0001	<u>1 S.F.</u>	320001	<u>6 S.F.</u>

Q2) Determine the number of significant figures in each of the following:

- | | | |
|------------------------------|----------------------------|-----------------------------|
| a) 6.571 g <u>4 S.F.</u> | f) 30.07 g <u>4 S.F.</u> | k) 54.52 cm <u>4 S.F.</u> |
| b) 0.157 kg <u>3 S.F.</u> | g) 0.106 cm <u>3 S.F.</u> | l) 0.12090 mm <u>5 S.F.</u> |
| c) 28.0 ml <u>3 S.F.</u> | h) 0.0067 g <u>2 S.F.</u> | m) 2.690 g <u>4 S.F.</u> |
| d) 2500 m <u>2 S.F.</u> | i) 0.0230 cm <u>3 S.F.</u> | n) 43.07 cm <u>4 S.F.</u> |
| e) 0.0700000 g <u>6 S.F.</u> | j) 26.509 cm <u>5 S.F.</u> | |

Q3) Round 742,396 to four, three, and two significant digits:

- a) four significant digits 742400
- b) three significant digits 742000
- c) two significant digits 740000

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Q4) Round 231.45 to four, three, and two significant digits:

a) four significant digits 231.5

b) three significant digits 231

c) two significant digits 230

Q5) Round the following numbers to 2 significant figures.

a. 9.9099 m 9.9

b. 0.9090 m 0.91

c. 0.0909 m 0.091

Q6) Round the following numbers to the given degree of accuracy.

NUMBER	Nearest one	To 1dp	To 2dp
9.284	9	9.3	9.28
8.477	8	8.5	8.48
0.716	1	0.7	0.72
10.295	10	10.3	10.30
2.186	2	2.2	2.19
8.907	9	8.9	8.91
0.562	1	0.6	0.56
1.381	1	1.4	1.38
8.962	9	9.0	8.96
12.634	13	12.6	12.63
2.645	3	2.6	2.65
0.0872	0	0.1	0.09
0.9983	1	1.0	1.00
8.871	9	8.9	8.87
4.2937	4	4.3	4.29
15.717	16	15.7	15.72
1.3814	1	1.4	1.38
20.829	21	20.8	20.83
7.14387	7	7.1	7.14
41.184	41	41.2	41.18
9.54892	10	9.5	9.55
0.9841	1	1.0	0.98