Mean, Mode and Frequency

Find the mean

1. 2, 5, 7, 3, 6

2. 1, 0, 4, 11,

3. 25, 60, 85, 1, 1, 21

4. 6.3, 3.8, 8.1, 9, 9.0,

5. 3.6, 2, 4.6, 2, 10, 5, 15, 6.4

Find the mode

1. 5, 2, 9, 9, 2, 9, 5

2. 3, 6, 7, 8, 7, 5, 3, 7, 3, 5, 7

3. 4, 2, 5, 6, 4, 3,

4. 9, 0, 0, 0, 4, 9, 1, 2, 1

5. 1, 10, 1, 2, 20, 22, 1

Complete the frequency table
1. 4, 2, 4, 6, 2, 1, 3, 2, 1, 5, 7, 7, 8, 8, 7, 9, 7

Number									
Frequency									

The mode is _____

1. Find the mean mark from the following distribution.

Mark (%)	10	20	30	40	50	60	70	80	90
Number of Students	1	2	4	2	5	12	2	2	1

$$\text{Mean} = \frac{(\quad)x\,10+(\quad)x20+(\quad)x30+()x40+(\quad)x50+(\quad)x60+(\quad)x70+(\quad)x80+(\quad)x90}{(\qquad\qquad)}$$

Mean = _____

Month	Jan	Feb	March
Sales	87	50	24

1. What is the average monthly sales during this period?

2. What was the percentage decrease in sales between Feb and March?

Goals	0	1	2	3	4
Number of Matches	8	5	2	4	1

1. What fraction of matches had no goals scored?

2. What fraction of matches had more than two goals scored?

3. What percentage of matches had four goals scored?

Mean, Mode and Frequency

Find the mean

1. $2, 5, 7, 3, 6 = \frac{23}{5} = 4.6$

2. $1, 0, 4, 11, \frac{16}{4} = 4$

3. $25, 60, 85, 1, 1, 21 = \frac{36.2}{6} = 32.17$

4. $6.3, \; 3.8, 8.1, 9, \; 9.0, = \frac{36.2}{5} = 7.24$

5. $3.6, 2, 4.6, 2, 10, 5, 15, 6.4 = \frac{48.6}{8} = 6.08$

Complete the frequency table

1. 4, 2, 4, 6, 2, 1, 3, 2, 1, 5, 7, 7, 8, 8, 7, 9, 7

Number	1	2	3	4	5	6	7	8	9
Frequency	2	3	1	2	1	1	4	2	1

The mode is _____7_____

Month	Jan	Feb	March
Sales	87	50	24

1. What is the average monthly sales during this period?

   53.7

2. What was the percentage decrease in sales between Feb and March?

   $\frac{26}{50} = 0.52 \times 100 = 52\%$

Find the mode

1. 5, 2, 9, 9, 2, 9, 5 $\qquad$ = 9

2. 3, 6, 7, 8, 7, 5, 3, 7, 3, 5, 7 $\qquad$ = 7

3. 4, 2, 5, 6, 4, 3, $\qquad$ = 4

4. 9, 0, 0, 0, 4, 9, 1, 2, 1 $\qquad$ = 0

5. 1, 10, 1, 2, 20, 22, 1 $\qquad$ = 1

1. Find the mean mark from the following distribution.

Mark (%)	10	20	30	40	50	60	70	80	90
Number of Students	1	2	4	2	5	12	2	2	1

Mean =
$$\frac{(1)x\,10+(2)x20+(4)x30+(2)x40+(5)x50+(12)x60+(2)x70+(2)x80+(1)x90}{(\quad 1+2+4+2+5+12+2+2+1 \quad)}$$

Mean $= \frac{10+40+120+80+250+720+140+160+90}{31} = \frac{1610}{31} = 51.94\%$

Goals	0	1	2	3	4
Number of Matches	8	5	2	4	1

1. What fraction of matches had no goals scored?

   $\frac{8}{20}$ or $\frac{2}{5}$

2. What fraction of matches had more than two goals scored?

   $\frac{5}{20}$ or $\frac{1}{4}$

3. What percentage of matches had four goals scored?

   $\frac{1}{20} \times 100 = 5\%$

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