QUICK COVER   AVERAGES (1)
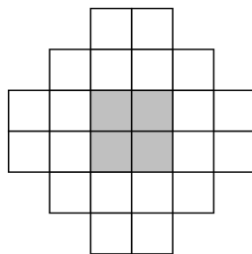
Task 1 : Finding the mode

Task 2 : Finding the median

Task 3 : Calculating the mean

Task 4 : Mixture of tasks 1 to 3

Puzzle : **Tasks 1 to 4**

TASK 1

The MODE is the value that occurs most often

②, 4, ②, 6, 1, 4, ②

There are more 2's in the data list than any other number so the MODE = 2

TASK 3

To calculate the mean

3, 6, 3, 10, 8

Step 1 : Add all of the 'numbers' together

3 + 6 + 3 + 10 + 8 = 30

Step 2 : Divide your total by the number of values in your data list

MEAN = 30 ÷ 5

= 6

TASK 2

The MEDIAN is the value in the middle when the data list listed **in order**

Example 1

2, 5, 4, 2 ,1

Write the data in order

1, 2, ②, 4, 5

MEDIAN = 2

Example 2

4, 5, ⑤, ⑧, 8, 10

If there are 2 numbers in the middle

$$\text{MEDIAN} = \frac{5+8}{2} = \frac{13}{2} = 6.5$$

AVERAGES (1)

TASK 1	TASK 2	TASK 3	TASK 4
1. Find the mode 17, 20, 23, 6, 17	1. Find the median 7, 17, 21, 25, 15	1. Calculate the mean 4, 9, 2, 9, 6	1. Calculate the mean 10, 8, 12, 7, 23
2. Find the mode 11, 3, 22, 3, 11	2. Find the median 1, 20, 4, 15, 1	2. Calculate the mean 9, 9, 3, 6, 78	2. Find the mode 11, 3, 22, 3, 11
3. Find the mode -4, 3, -2, -4, 2	3. Find the median 25, 6, 22, 12, 24	3. Calculate the mean 5, 13, 8, 2, 27	3. Calculate the mean 6, 3, 3, 17, 5, 50
4. Find the mode 0.4, 0.7, 0.3, 0.7, 0	4. Find the median 7, -9, 0, -6, 10	4. Calculate the mean 10, 8, 5, 8, -6	4. Calculate the mean 14, 13, 10, 5, 5, 1
5. Find the mode 24, 23, 22, 23, 24, 23	5. Find the median 7, 8, 7, 18, 19, 6	5. Calculate the mean 12, 10, 6, 13, 14	5. Find the median 0.1, 0.4, 1.3, 1.3, 1.5, 0.9
6. Find the mode 0.2, 1.3, 0.2, 1.4, 0.5, 0.7	6. Find the median 0.7, 0.1, 0.8, 1.1, 0.5, 0.2	6. Calculate the mean 11, 12, 5, 12, 20, 48	6. Find the median 19, 19, 11, 7, 6
7. Find the mode 9, 24, 9, 15, 21, 11	7. Find the median 9, 20, 11, 25, 16, 15	7. Calculate the mean 11, 10, 11, 7, 5, 4	7. Calculate the mean 6, 16, 7, 17, 39
8. Find the mode 13, 17, 15, 11, 13	8. Find the median 7, 16, 9, 10, 17	8. Calculate the mean 19, 23, 18, 2, 7, 63	8. Find the median 3, -1, 2, -3, 8
9. Find the mode -4, -6, 6, -4, 3	9. Find the median 21, 12, 23, 22, 24	9. Calculate the mean 10, 14, 5, 2, 24	9. Calculate the mean 20, 16, 20, 7, 12
10. Find the mode 0.6, 0.5, 0.4, 0.3, 0.5	10. Find the median 4, -6, -9, -10, -9	10. Calculate the mean 2, 6, 15, 9, 23	10. Calculate the mean 6, 13, 18, 3, 35
11. Find the mode 25, 21, 23, 24, 21	11. Find the median 14, 8, 11, 13, 21	11. Calculate the mean 21, 24, 2, 9, 49	11. Find the median -9, -1, -4, 6, -10
12. Find the mode 5, -5, 2, -2, 5, 11	12. Find the median 4, 10, 7, -3, 8, 21	12. Calculate the mean 15, 8, 21, 10, 36	12. Calculate the mean 11, 11, 2, 3, 10, 5
13. Find the mode 2.5, 5.2, 3.5, 2.5, 5.3, 2.4	13. Find the median 24, 5, 13, 11, 24, 24	13. Calculate the mean 3, 11, 11, 11, 9	13. Calculate the mean 11, 11, 4, 7, 8, -5
14. Find the mode 23, 13, 25, 13, 19, 15	14. Find the median 10, 18, 13, 14, 21, 7	14. Calculate the mean 18, 10, 20, 12, 19, 17	14. Find the median 14, 17, 10, 22, 18
15. Find the mode -1, 0, 2, 1, 0, -2	15. Find the median 4.4, 1.5, 1.5, 1.9, 4.2, 4.5	15. Calculate the mean 12, 16, 2, 15, 9, 60	15. Find the mode 0.5, 0.6, 0.9, 0.6, 0.2

AVERAGES (1)

TASK 1	TASK 2	TASK 3	TASK 4
1.	1.	1.	1.
2.	2.	2.	2.
3.	3.	3.	3.
4.	4.	4.	4.
5.	5.	5.	5.
6.	6.	6.	6.
7.	7.	7.	7.
8.	8.	8.	8.
9.	9.	9.	9.
10.	10.	10.	10.
11.	11.	11.	11.
12.	12.	12.	12.
13.	13.	13.	13.
14.	14.	14.	14.
15.	15.	15.	15.

Tarsia puzzle — Mean, Median, Mode

Row 1

3 | 8 | Mode of 1, 12, 2, 1, 12, 12 — 6.5

2 | 4 | Mean of 10, 2, 9 | 10

Mean of 1, 0, 3, 0, 1 | Mode of 3, 11, 2, 4, 11 | Median of 11, 5, 10, 5, 2, 11

Row 2

Mode of 17, 16, 15, 16, 15, 16 | 12.5 | 2.5

15 | Mean of 17, 21, 7 | 6 | Mode of 10, 11, 12, 10

11.5 | 10.5 | Mean of 2, 4, 2, 4, 1 | Median of 9, 4, 3, 2, 5, 2

Row 3

Median of 15, 14, 9, 14, 7, 8 | 5.5

Mode of 2, 5, 3, 1, 5, 5 | 14 | Median of 12, 7, 17, 12, 6, 7 | 13 | Mean of 3, 10, 7, 4, 4, 11

Median of 3, 15, 5, 11, 7, 4 | 12

Row 4

6 | Mean of 8, 15, 6, 5 | 1

Median of 21, 22, 17, 12, 14 | 7 | Median of 13, 3, 15, 1, 5, 22 | 7.5 | Mean of 5, 3, 2, 7, 3, 4

16 | Mode of 3, 8, 4, 2, 1, 8 | Mean of 16, 4, 14, 16 | 17

Row 5

3.5 | Mean of 10, 10, 15, 7 | 11

Mode of 1, 2, 5, 2, 3, | Mean of 5, 4, 3, 6 | Mode of 15, 14, 11, 14, 13 | Mode of 12, 13, 14, 13 | 4.5

5 | Median of 6, 9, 2, 1, 4, | 8.5 | 9.5 | Median of 11, 8, 3, 2, 8, 1