

Reasoning – Finding the Mean

Information:

These questions have been taken from the KS2 Reasoning test to help your children practise specific question types.

National Curriculum Objectives:

Mathematics Year 6: [Calculate and interpret the mean as an average](#)

Differentiation:

Beginner Problems involving finding the mean of a set of data with up to 4 numbers between 1 and 10. Aimed at Year 6 Emerging.

Easy Problems involving finding the mean of a set of data with up to 5 numbers between 1 and 20. Aimed at Year 6 Developing.

Tricky Problems involving finding the mean of a set of data with up to 6 numbers between 1 and 100. Aimed at Year 6 Secure.

Expert Problems involving finding the mean of a set of data with up to 7 numbers between 1 and 200. Aimed at Year 6 Mastery.

More [Reasoning](#) resources.

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Finding the Mean – Teaching Information

Reasoning – Finding the Mean

In a weekly spelling test, James scored the following results.

Week	Score
Week 1	9
Week 2	8
Week 3	10
Week 4	9

What was his mean score?

George recorded the number of portions of fruit and vegetables he ate over four days.

Day	Portions
Friday	6
Saturday	6
Sunday	4
Monday	4

What was his mean daily amount?

Sue was training for a 10km run. She recorded the number of km she ran over a week.

Day	Distance (km)
Monday	5
Wednesday	7
Friday	6
Sunday	10

What was the mean distance she ran over the four days?

Show your method

Show your method

Show your method

km

Reasoning – Finding the Mean

In a weekly times table, test Becky scored the following results:

Week	Score
Week 1	12
Week 2	19
Week 3	14
Week 4	7
Week 5	13

What was her mean score?

The number of points scored by a basketball player during his first five matches were recorded.

Match	Points
1	10
2	14
3	6
4	3
5	17

What was his mean points score?

The daily temperature in April was recorded over five days.

Day	Temperature (Celsius)
Monday	12°
Tuesday	9°
Wednesday	14°
Thursday	11°
Friday	9°

What was the mean temperature?

Show
your
method

Show
your
method

Show
your
method

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Finding the Mean – Worksheet 1 – Easy

Reasoning – Finding the Mean

In five packets of sweets, the number of red sweets were counted.

Packet	Number of red sweets
1	7
2	11
3	9
4	12
5	6

What was the mean amount of red sweets?

Show your method

An ice-cream seller recorded the number of cones he sold over five days.

Day	Number of cones sold
Monday	16
Tuesday	18
Wednesday	13
Thursday	19
Friday	9

What was the mean amount of cones sold?

Show your method

The number of cats treated in a vets during a week was recorded.

Day	Cats treated
Monday	6
Tuesday	12
Wednesday	3
Thursday	11
Friday	13

What was the mean number of cats seen?

Show your method

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Finding the Mean – Worksheet 2 – Easy

Reasoning – Finding the Mean

Six children want to share the money in each of their piggy banks equally between them.

Children	Amount
Stefan	24p
Lara	36p
Olivia	42p
Chen	28p
Maria	48p
Dev	20p

How much will they get each?

Show your method

p

The number of people that visited a restaurant over six days was recorded.

Day	Number of customers
Tuesday	38
Wednesday	42
Thursday	60
Friday	74
Saturday	82
Sunday	76

What was the mean number of customers per day?

Show your method

A school put on six end of year production performances. The number of people in the audience during each performance was recorded.

Performance	Number in the audience
1	97
2	95
3	88
4	96
5	99
6	95

What was the mean number of spectators per performance?

Show your method

Reasoning – Finding the Mean

It took John six days to read his new book. Below are the number of pages he read each day.

Day	Number of page read
Monday	34
Tuesday	39
Wednesday	27
Thursday	56
Friday	42
Saturday	24

What was the mean number of pages he read each day?

Show your method

Pam went on holiday to France. She recorded the daily temperature during her stay.

Day	Temperature (Fahrenheit)
Monday	81°
Tuesday	75°
Wednesday	66°
Thursday	84°
Friday	82°
Saturday	74°

What was the mean temperature?

Show your method

The number of rooms in six different hotels were as follows:

Hotel	Number of rooms
The Regal	55
Rose Vale	70
Ivory Garden	68
Ocean Resort	44
Royal hotel	52
Diamond Resort	65

What was the mean number of rooms?

Show your method

Reasoning – Finding the Mean

Seven children measured their height.

Children	Height (cm)
Stefan	144
Lara	157
Olivia	142
Chen	143
Maria	152
Dev	148
Sarah	150

What is the mean height of the children?

Show your method

Patrick owns a gift shop. He records the profits he makes during one week.

Day	Profit (£)
Monday	178
Tuesday	182
Wednesday	156
Thursday	144
Friday	152
Saturday	161
Sunday	196

What was his mean daily profit?

Show your method

The manager of a cricket team records the runs the team makes over seven matches.

Match	Number of runs
1	121
2	142
3	149
4	136
5	124
6	132
7	176

What was the mean score per match?

Show your method

Reasoning – Finding the Mean

A film club watches seven films in a month. The length of each film was recorded.

Film	length (minutes)
Ice Queen	100
Bash-it-Bob	108
Trains	116
Trains 2	113
Toys Life 3	103
Down	87
Enchantment	108

What is the mean length of the films?

Show your method

Louise scored the following marks when tested in seven subjects.

Subject	Mark
Maths	92
Grammar	136
Biology	104
Reading	121
Geography	107
History	142
Chemistry	117

What was her mean score?

Show your method

The weight of the players on a netball team was recorded.

Player	Weight (lbs)
GS	120
GA	136
WA	124
C	118
WD	137
GD	128
GK	133

What is the mean weight of the players?

Show your method

 lbs

Reasoning – Finding the Mean

Beginner

- | | | |
|------|------|---------|
| 1. 4 | 2. 8 | 3. 3 ° |
| 4. 9 | 5. 5 | 6. 7 km |

Easy

- | | | |
|-------|-------|---------|
| 1. 13 | 2. 10 | 3. 11 ° |
| 4. 9 | 5. 15 | 6. 9 |

Tricky

- | | | |
|---------|---------|-------|
| 1. 33 p | 2. 62 | 3. 95 |
| 4. 37 | 5. 77 ° | 6. 59 |

Expert

- | | | |
|----------------|---------|------------|
| 1. 148 cm | 2. £167 | 3. 140 |
| 4. 103 minutes | 5. 117 | 6. 128 lbs |

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Finding the Mean **ANSWERS**