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

The shoe sizes of four children are recorded below.

Children	Shoe Size
Lucy	3
Joe	4
Sam	3
Ella	6

The ages of four primary school children are recorded below.

Children	Age
Lottie	8
Betsy	9
Elsie	7
Erin	8

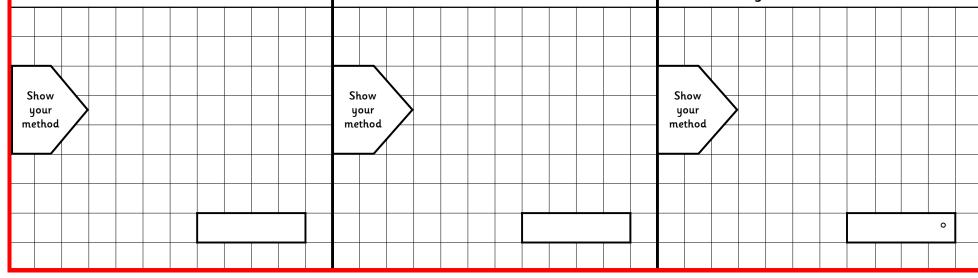
Jane recorded the temperature for four days at the beginning of December.

Day	Temperature (Celsius)
Monday	5°
Tuesday	3°
Wednesday	2°
Thursday	2°

What is the mean shoe size of the children?

What is the mean age of the children?

What was the mean temperature over the four days?







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

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

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

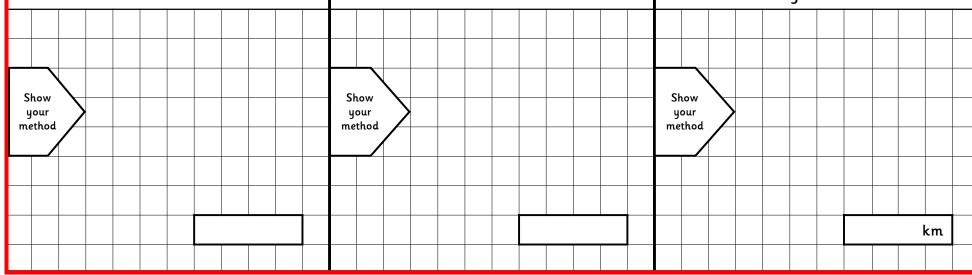
Sue was training for a 10km run. She recorded the number of km she ran over a week.

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

What was his mean score?

What was his mean daily amount?

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







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

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

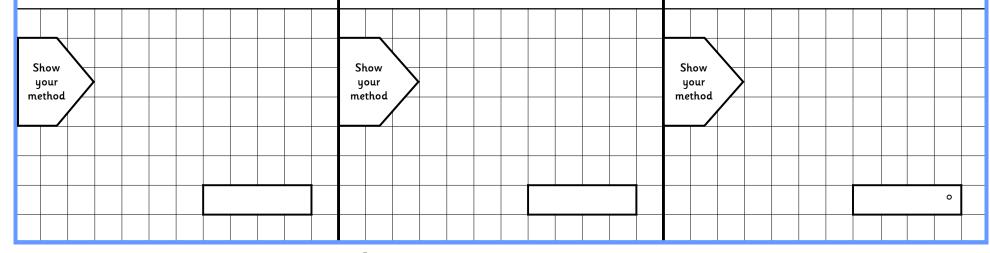
The daily temperature in April was recorded over five days.

Day	Temperature (Celsius)
Monday	12°
Tuesday	٩٠
Wednesday	14°
Thursday	11°
Friday	٩٠

What was her mean score?

What was his mean points score?

What was the mean temperature?





Finding the Mean - Worksheet 1 - Easy



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

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

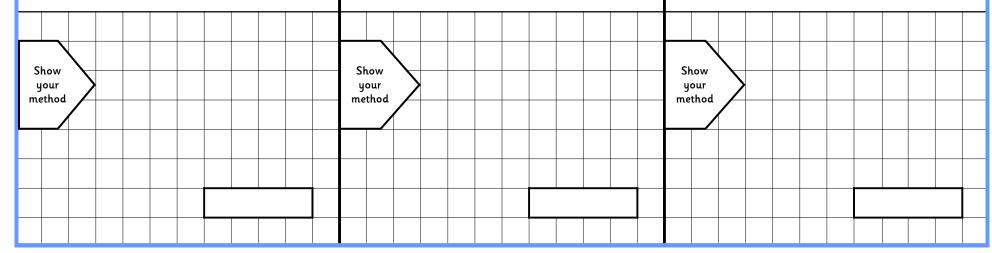
The number of cats treated in a vets during a week was recorded.

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

What was the mean amount of red sweets?

What was the mean amount of cones sold?

What was the mean number of cats seen?





Finding the Mean - Worksheet 2 - Easy



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?

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

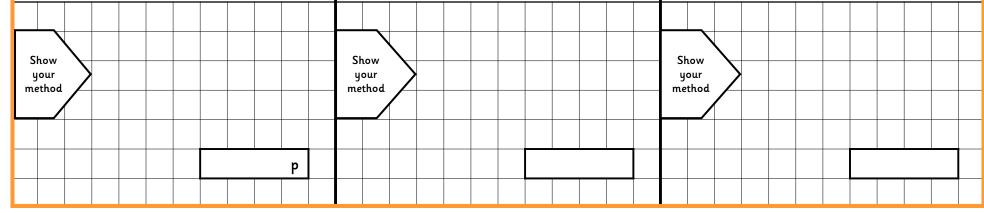
Day	Number of customers
Tuesday	38
Wednesday	42
Thursday	60
Friday	74
Saturday	82
Sunday	76

What was the mean number of customers per day?

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?





Finding the Mean - Worksheet 1 - Tricky



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?

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

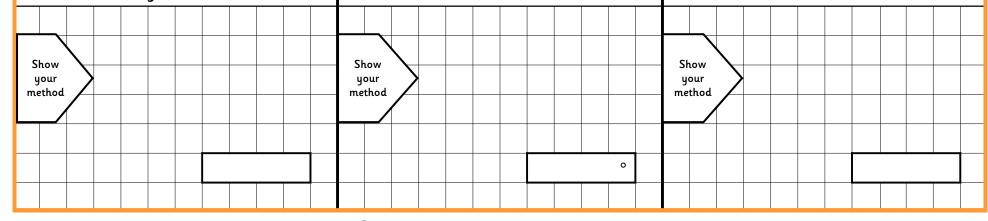
Day	Temperature (Fahrenheit)
Monday	81°
Tuesday	75°
Wednesday	66°
Thursday	84°
Friday	82°
Saturday	74°

What was the mean temperature?

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?





Finding the Mean – Worksheet 2 – Tricky

Seven children measured their height.

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

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

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

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

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

What is the mean height of the children?

What was his mean daily profit?

What was the mean score per match?

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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?

Louise scored the following marks when tested in seven subjects.

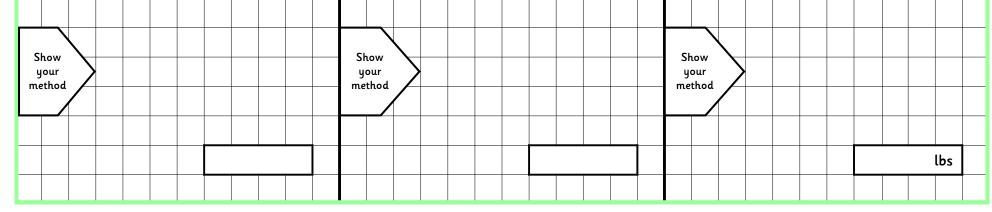
Subject	Mark
Maths	92
Grammar	136
Biology	104
Reading	121
Geography	107
History	142
Chemistry	117

What was her mean score?

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

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

What is the mean weight of the players?





Finding the Mean – Worksheet 2 – Expert



<u>Beginner</u>

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 4. 37 2. 62

7 0

3. 95

5. **77** °

6. 59

Expert

1. 148 cm

2. £167

3. 140

4. 103 minutes

5. 117

6. 128 lbs

Finding the Mean ANSWERS