### 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 <u>Reasoning</u> resources.

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Finding the Mean - Teaching Information





Finding the Mean – Worksheet 1 – Beginner







Finding the Mean - Worksheet 2 - Beginner



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Finding the Mean - Worksheet 1 - Easy

				Reas	soning – Fir	nding the N	Iean				
In five packets of sweets, the number of red sweets were counted.			An ice-cream seller recorded the number of cones he sold over five days.			The number of cats treated in a vets during a week was recorded.					
	Packet	Number of red sweets			Day	Number of cones sold			Day	Cats treated	
	1	7			Monday	16			Monday	6	
	2	11			Tuesday	18	1		Tuesday	12	
	3	٩			Wednesday	13	1		Wednesday	3	
	4	12			Thursday	19	1		Thursday	11	
	5	6			Friday	٩			Friday	13	
What was the mean amount of red sweets?			What sold? Show your method	was the mear			What seen? Show your method	was the mea	n number of cat	ts	

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

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?



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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

Monday

Tuesday

Wednesday

Thursday

Saturday

Friday

Temperature

(Fahrenheit)

**81**°

75∘

66°

**84**°

**82**°

**74**°

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?



What was the mean temperature?

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Finding the Mean – Worksheet 2 – Tricky



	<u>Reasoning - Finding the Mean</u>									
Seven children measured their height.			Patri the p	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)			Day	Profit (£)			Match	Number of runs		
	Stefan 144			Monday	178			1	121	
	Lara	157		Tuesday	182			2	142	
	Olivia	142		Wednesday	156			3	149	
	Chen 143			Thursday	144			4	136	
	Maria 152			Friday	152			5	124	
	Dev	148		Saturday	161			6	132	
	Sarah	150		Sunday	196			7	176	
What is the mean height of the children?			Wha	t was his mear	ı daily profit?		What	was the mean	n score per ma	tch?
Show your method			Show your method				Show your method			



Finding the Mean - Worksheet 1 - Expert

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

			_			
	Film	length (minutes) 100			Subject	Mark
	Ice Queen				Maths	92
	Bash-it-Bob	108			Grammar	136
	Trains	116			Biology	104
	Trains 2	113			Reading	121
	Toys Life 3	103			Geography	107
	Down	87			History	142
	Enchantment	108			Chemistry	117
What	is the mean leng	th of the fi	lms?	What	was her med	an score?
Show your method				Show your method		

Louise scored the following marks when tested in seven subjects.

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?

lbs

Show your method

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Finding the Mean - Worksheet 2 - Expert

Beginner		
1. 4	2. <mark>8</mark>	3. <mark>3</mark> °
4. <mark>9</mark>	5. <mark>5</mark>	6. 7 km
<u>Easy</u>		
1. <mark>13</mark>	2. 10	3. 11 °
4. <mark>9</mark>	5. <mark>15</mark>	6. <mark>9</mark>
Tricky		
1. 33 p	2. <mark>62</mark>	3. <mark>95</mark>
4. 37	5. 77 °	6. <mark>59</mark>
Expert		
1. 148 cm	2. <u>£167</u>	3. <mark>140</mark>
4. 103 minutes	5. 117	6. 128 lbs



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Finding the Mean **ANSWERS**