

Homework/Extension

Step 8: The Mean

National Curriculum Objectives:

Mathematics Year 6: (6S3) [Calculate and interpret the mean as an average](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Calculate the mean points scored after six games, using whole numbers only.

Expected Calculate the mean times after six races, answers using whole numbers only.

Greater Depth Calculate the mean lap times after six races. Question and answer include some decimal numbers.

Questions 2, 5 and 8 (Varied Fluency)

Developing Calculate the mean distances travelled by five children during a fun run, using whole numbers only.

Expected Calculate the mean distances travelled by six children, including some decimal numbers, answers using whole numbers only.

Greater Depth Calculate the mean distances travelled by six people. Question and answer include some decimal numbers and some conversions of mm, cm and m.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Identify the missing value to calculate a certain mean. Question and answer using whole numbers only.

Expected Identify the missing value to calculate a certain mean. Question includes decimal numbers, answers using whole numbers only.

Greater Depth Identify the missing value to calculate a certain mean. Question and answer include some decimal numbers and conversion.

More [Year 6 Statistics](#) resources.

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The Mean

1. The following scores are the total points that the Rugby Rangers have scored in each of their last five games. Calculate their mean score.



25

27

13

6

9



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HW/Ext

2. Calculate the mean distance these children ran during a fun run.



3km



2km



7km



4km



9km

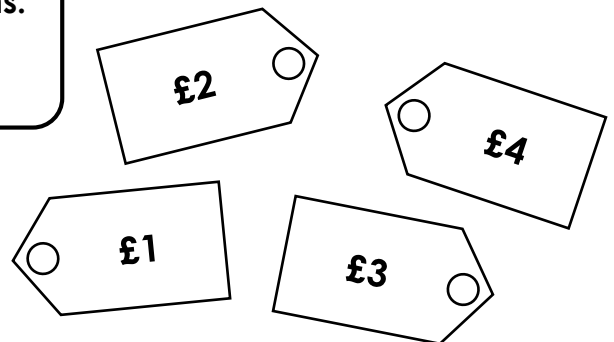


VF
HW/Ext

3. Simona is shopping. She says,



I bought three different items.
The mean cost of my
shopping total is £2.00.



What are the prices of the three items Simona bought?



RPS
HW/Ext

The Mean

4. The following scores are Bo Harah's track times, in minutes, from his last six 10,000m races. Calculate his mean track time.



30:00

31:00

30:30

29:00

27:30

32:00



VF
HW/Ext

5. Calculate the mean distance these children travel to school.



0.8km



1.2km



2.4km



0.6km



2.3km



4.7km



VF
HW/Ext

6. Nate is shopping. He says,



I bought four different items.
The mean cost of my
shopping total is £3.00.



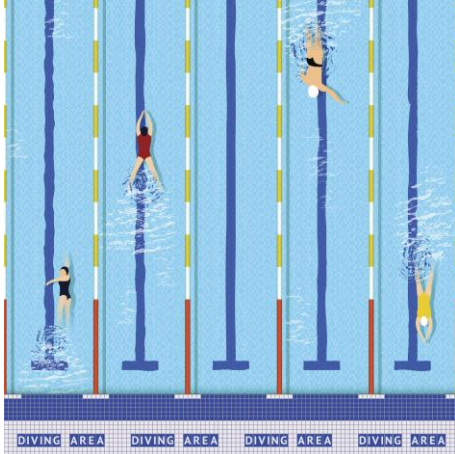
What are the prices of the four items Nate bought?



RPS
HW/Ext

The Mean

7. The following scores are Becky Hadlington's lap times, in minutes, from her last six 1,500m races. Calculate her mean lap time.



15:30

16:30

16:30

15:45

16:15

17:00



VF
HW/Ext

8. Calculate the mean distance of these children's long jump scores in metres.



3,490mm

2,470mm

291cm

3.61m

442cm

3.38m



VF
HW/Ext

9. Harriet is shopping. She says,



I bought six different items.
The mean cost of my
shopping total is £3.45.

£5.22

£3.25

£1.48

£5.75

73p

£4.25

£3.27

What are the prices of the six items Harriet bought?



RPS
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Homework/Extension

The Mean

Developing

1. 16
2. 5km
3. £1, £2, £3 = £6

Expected

4. 30
5. 2km
6. £1.50, £6.50, £3.25, £0.75 = £12

Greater Depth

7. 16.25
8. 3.38m
9. £5.22, £1.48, 73p, £3.27, £5.75, £4.25 = £20.70