National Curriculum Objectives:

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

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Use knowledge of calculating the mean to find the missing digit. Questions include 1 digit numbers. (Answers in whole numbers).

Expected Use knowledge of calculating the mean to find the missing digits. Questions include 1 and 2 digit numbers. (Answers including numbers with 1 decimal place). Greater Depth Use knowledge of calculating the mean to find the missing digits. Questions include 2 and 3 digit numbers. (Answers including numbers with up to 2 decimal places).

Questions 2, 5 and 8 (Problem Solving)

Developing Word problem including 3 number clues used to work out the mean. Questions include 1 digit numbers. (Answers in whole numbers).

Expected Word problem including 3 number clues used to work out the mean. Questions include 1 and 2 digit numbers. (Answers including numbers with 1 decimal place).

Greater Depth Word problem including 3 number clues used to work out the mean. Questions include 2 and 3 digit numbers. (Answers including numbers with up to 2 decimal places).

Questions 3, 6 and 9 (Reasoning)

Developing Given a statement about working out the mean, decide whether the method or answer is correct. Questions include 1 digit numbers. (Answers in whole numbers).

Expected Given a statement about working out the mean, decide whether the method or answer is correct. Questions include 1 and 2 digit numbers. (Answers including numbers with 1 decimal place).

Greater Depth Given a statement about working out the mean, decide whether the method or answer is correct. Questions include 1 digit numbers. (Answers in whole numbers).

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Reasoning and Problem Solving - The Mean - Teaching Information

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Reasoning and Problem Solving – The Mean – Year 6 Developing

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Reasoning and Problem Solving - The Mean - Year 6 Expected

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Reasoning and Problem Solving - The Mean - Year 6 Greater Depth

<u>Developing</u>

1a. 9 1b. 8 2a. 4 + 2 + 9 = 15, $15 \div 3 = 5$ 2b. 6 + 5 + 7 = 18, $18 \div 3 = 6$ 3a. No, she has put the numbers in order unnecessarily. Yes, but she has put the numbers in order unnecessarily. 3b. No, he has used the correct method but $30 \div 5 = 6$, not 5.

Expected

4a. Any two numbers with a sum of 20. 4b. Any two numbers with a sum of 32. 5a. $185 + 180 + 187 = 552, 552 \div 3 = 184$ cm 5b. $28 + 31 + 25 = 84, 84 \div 3 = 28$ 6a. No. She has divided the sum of the numbers by 5 instead of 4. 6b. Yes. $159 \div 5 = 31.8$

Greater Depth 7a. Any three numbers with a sum of 231. 7b. Any three numbers with a sum of 470. 8a. 75.8kg + 77.2kg + 72kg = 225kg, 225kg \div 3 = 75kg 8b. 427 + 429 + 419 = 1,277, 1,277 \div 3 = 425 9a. Yes. He used the correct method to find the mean. 9b. No. 941 \div 6 = 156.83





Reasoning and Problem Solving – The Mean ANSWERS