Line Plots, Averages and Volume

Grade 5 · 6 questions · step-by-step answers at the end

Name: Date: Score: / 6

USEFUL EQUATIONS

mean = total ÷ number of values range = largest − smallest $V = l \times w \times h$

V = base area × height

Questions

Show your working in the space under each question.

1. EASY Find the mode of 4, 6, 6, 7, 9, 6.

2. EASY Find the range of 12, 5, 9, 20, 7.

3. MEDIUM Find the mean of 6, 8, 10.

4. MEDIUM Find the volume of a cube with sides of 3 cm.

5. HARD A line plot of plant heights (in cm) has marks at 4, 4, 5, 5, 5, 6, 8. Find the median and the mean.

6. HARD A fish tank is 50 cm long, 30 cm wide and 40 cm high. What is its volume in cm^3 and in litres (1 L = 1000 cm^3)?

Step-by-step answers

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1. 6 appears three times: **6**.

2. $20 - 5 = \mathbf{15}$.

3. $24 \div 3 = \mathbf{8}$.

4. $3 \times 3 \times 3 = \mathbf{27\ cm^3}$.

5. Seven values, so the median is the fourth: **5**. Total 37, mean $= 37 \div 7 \approx \mathbf{5.3}$.

6. $50 \times 30 \times 40 = \mathbf{60{,}000\ cm^3 = 60\ L}$.