

Measurement and Data: math test solutions, Grade 4 – download the PDF

Test solutions with the detailed point scale. Add up your points and spot what to review.

Suggested time: 45 minutes. Out of 20 points. Calculator allowed only when the problem says so.

1 Conversions

/ 4 pts

- a. $7 \times 12 = 84$ in (1 pt)
- b. $9 \times 100 = 900$ cm (1 pt)
- c. $5 \times 1,000 = 5,000$ mL (1 pt)
- d. $6 \times 16 = 96$ oz (1 pt)

2 Time

/ 3 pts

- a. 7:25 to 8:00 is 35 min; 8:00 to 9:00 is 1 h; 9:00 to 9:10 is 10 min. Total 1 h 45 min. (2 pts)
- b. 1:40 pm plus 2 h is 3:40 pm; plus 35 min is 4:15 pm. (1 pt)

3 Rectangles

/ 4 pts

- a. $P = 2 \times (11 + 7) = 36$ m (1 pt). $A = 11 \times 7 = 77$ sq m (1 pt).
- b. Length plus width is $30 \div 2 = 15$, so the width is $15 - 9 = 6$ ft (1 pt). Area:
 $9 \times 6 = 54$ sq ft (1 pt).

4 Line plot of nails

/ 3 pts

- a. $3 + 1 = 4$ nails (1 pt)
- b. $1\frac{1}{4} - \frac{1}{2} = \frac{5}{4} - \frac{2}{4} = \frac{3}{4}$ inch (1 pt)
- c. $4 \times \frac{3}{4} = 3$ inches (1 pt)

5 Concert money

/ 3 pts

Tickets: $3 \times 8.75 = 26.25$ dollars (1 pt). Total: $26.25 + 4.50 = 30.75$ dollars (1 pt).
Change: $40.00 - 30.75 = 9.25$ dollars (1 pt).

6 Water tank

/ 3 pts

- (a) $5 \text{ gal} = 5 \times 4 = 20$ qt (1 pt), and $20 \div 2 = 10$ pitchers (1 pt).
- (b) $10 - 3 = 7$ pitchers remain, $7 \times 2 = 14$ quarts (1 pt).



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