

Time, Liquid Volume, and Mass: math test solutions, Grade 3 – 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 Reading clocks

/ 4 pts

- (a) First clock: **8:27** (1 pt). Second clock: **1:53** (1 pt).
- (b) $60 - 27 = 33$ minutes until 9:00 (1 pt). $60 - 53 = 7$ minutes until 2:00 (1 pt).

2 Elapsed time

/ 4 pts

- (a) 9:35 to 10:00 is 25 minutes, and 10:00 to 10:20 is 20 minutes. $25 + 20 = 45$ minutes. (1 pt for the jumps, 1 pt for the answer)
- (b) 2:48 to 3:00 is 12 minutes, and 3:00 to 3:30 is 30 minutes. $12 + 30 = 42$ minutes. (1 pt for the jumps, 1 pt for the answer)

3 End time

/ 3 pts

From 6:25 jump 35 minutes to 7:00 (1 pt). $50 - 35 = 15$ minutes remain (1 pt). The play ends at **7:15 p.m.** (1 pt).

4 Converting units

/ 3 pts

(a) $6 \times 1,000 = 6,000$ mL (1 pt).

(b) $8,000 \div 1,000 = 8$ kg (1 pt).

(c) $2,000 + 500 = 2,500$ mL (1 pt).

5 The water cooler

/ 3 pts

(a) $18 \times 250 = 4,500$ mL, which is 4 L 500 mL (1 pt).

(b) The cooler held $10 \times 1,000 = 10,000$ mL, and $10,000 - 4,500 = 5,500$ mL (1 pt). **5,500 mL**, or 5 L 500 mL, is left (1 pt).

6 Packing a suitcase

/ 3 pts

Convert to grams: 7 kg is 7,000 g and 3 kg 200 g is 3,200 g (1 pt). Add:

$7,000 + 1,800 + 3,200 = 12,000$ g (1 pt). The total mass is **12,000 g**, which is **12 kg** (1 pt).



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