

Topic 14	Solve Time, Capacity and Mass Problems Assessment Practice	100 points
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Name: _____ Date: _____ Score: ____/100

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2
3
4

Problem Solving Practice

(100 points)

Directions: Solve each problem. Show your work in the space provided. Write your answer clearly on the line.

- 1 What time will it be 2 hours and 6 minutes after 8:36?

Show your work:

Answer: _____

- 2 Jessica finished a race at 4:40 and ran for 5 minutes. What time did she start the race?

Show your work:

Answer: _____

- 3 Two stores sell bags of apples. At Store A, each bag weighs 2 kilograms. At Store B, each bag weighs 4 kilograms. If you buy 6 bags at each store, how many more kilograms of apples will you buy from Store B?

Show your work:

Answer: _____

- 4 Name the metric unit that could be used to measure the capacity of a kitchen sink. Then, using that unit, write a reasonable estimate for the capacity of a kitchen sink.

Show your work:

Unit: _____

Estimate: _____

5

Part A: Mason is looking for a tool to measure the mass of an apple. Which tool should he use?

- A. Pan balance
- B. Ruler
- C. 1-cup container
- D. Clock

Part B: Using the tool from Part A, what unit will Mason use to measure the mass of the apple?

- A. Grams
- B. Minutes
- C. Cups
- D. Inches

6

Dale's school bus picks him up at 7:45 A.M. To get ready for school, Dale needs 15 minutes to eat breakfast, 10 minutes to make lunch, and 10 minutes to get dressed. What time does Dale need to begin getting ready for school?

Part A: Describe the quantities you know.

Part B: Solve the problem. Explain your reasoning.

Answer: _____

7

Mary has a total of 18 liters of water in 6 bottles. Jess has a total of 15 liters in 3 bottles. If the bottles are equally filled, how much more water is in each of Jess's bottles than in Mary's bottles?

Show your work:

Answer: _____

8

Eric played the guitar for 33 minutes on Monday and 19 minutes on Tuesday. Write and solve an equation to find how many more minutes Eric played the guitar on Monday.

Show your work:

Equation: _____

Answer: _____

- 9 Mrs. Griggs writes a shopping list saying she needs to buy 1 gram of apples. Is this reasonable? Explain.
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- 10 Irene measured the mass of a bag of apples using kilograms. Forest measured the same bag using grams. How did the measurements compare? Select all the sentences that are true.

- There were more grams than kilograms.
 - There were more kilograms than grams.
 - There was an equal number of grams and kilograms.
 - There were fewer grams than kilograms.
 - There were fewer kilograms than grams.
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ANSWER KEY

- | | | |
|---|--|---|
| 1. 10:42 — Add 2 hours 6 minutes to 8:36 | 2. 4:35 — Subtract 5 minutes from 4:40 | 3. 12 kilograms — Store B: 24kg, Store A: 12kg |
| 4. Liters; reasonable estimate varies (20-50 liters) | 5A. A — Pan balance measures mass | 5B. A — Grams are units of mass |
| 6. 7:10 A.M. — 35 minutes before 7:45 | 7. 2 liters — Jess: 5L each, Mary: 3L each | 8. $33 - 19 = 14$ minutes |
| 9. No — 1 gram is too small for apples | 10. First and fifth boxes — More grams, fewer kilograms | |