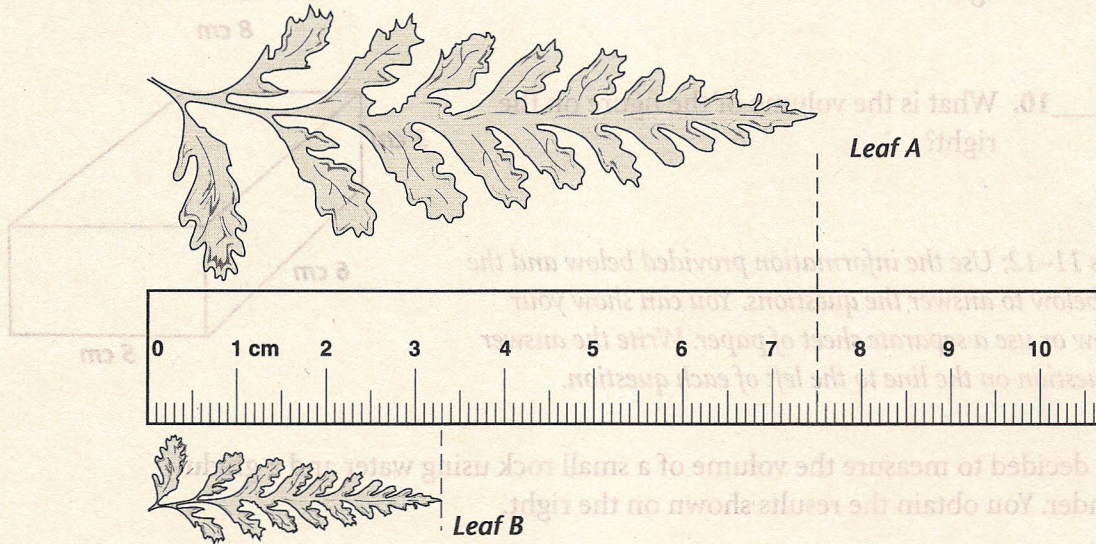


SKILLS ASSESSMENT

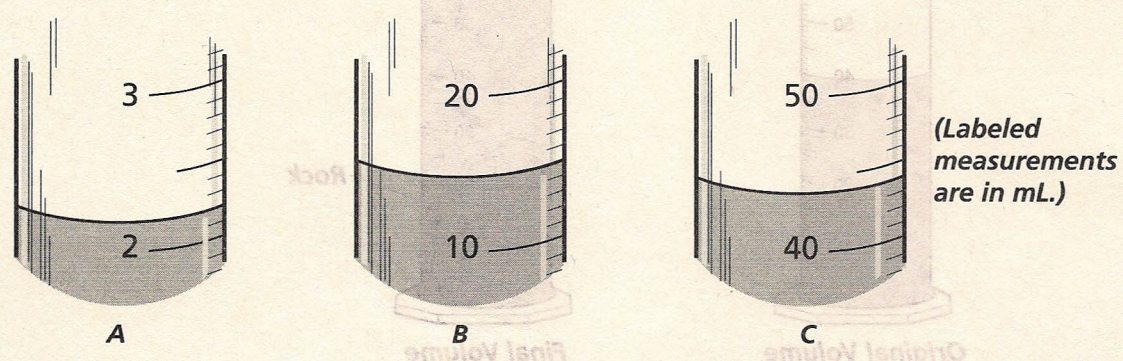
Skills Test B: Measuring and Calculating

Questions 1–5: Use the diagram below to answer each question. Write your answer on the line at the left.



- _____ 1. How many centimeters long is Leaf A?
- _____ 2. How many millimeters long is Leaf A?
- _____ 3. How many centimeters long is Leaf B?
- _____ 4. How many millimeters long is Leaf B?
- _____ 5. How many millimeters longer is Leaf A than Leaf B?

Questions 6–8: Use the diagram below to answer each question. Write your answer on the line at the left.

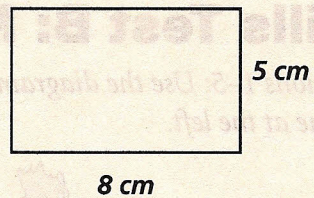


- _____ 6. What is the volume of water in graduated cylinder A?
- _____ 7. What is the volume of water in graduated cylinder B?
- _____ 8. What is the volume of water in graduated cylinder C?

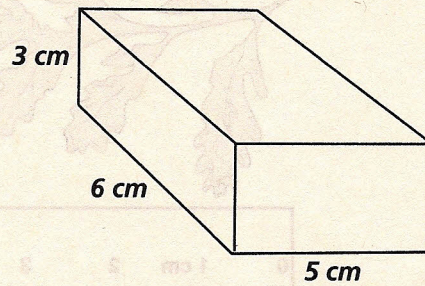
Skills Test B: Measuring and Calculating (continued)

Questions 9–10: Make the necessary calculations and give your answer in the space to the left of each question.

_____ 9. What is the area of the rectangle on the right?



_____ 10. What is the volume of the figure on the right?

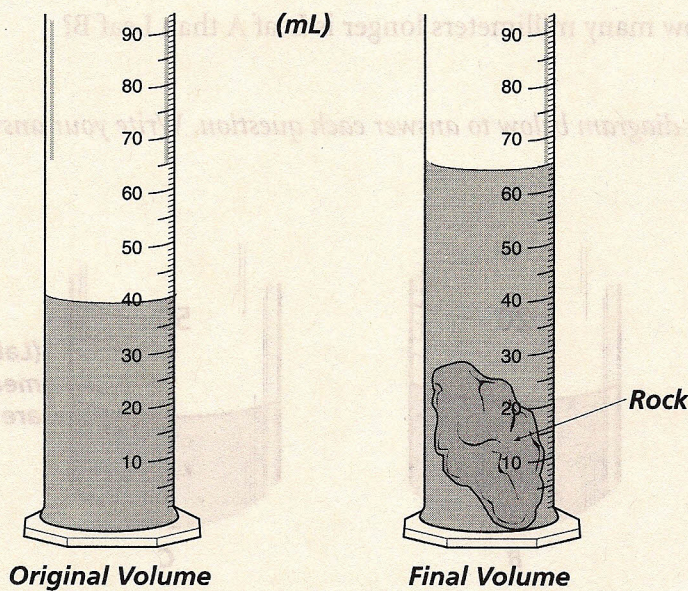


Questions 11–12: Use the information provided below and the diagram below to answer the questions. You can show your work below or use a separate sheet of paper. Write the answer to each question on the line to the left of each question.

You have decided to measure the volume of a small rock using water and a graduated cylinder. You obtain the results shown on the right.

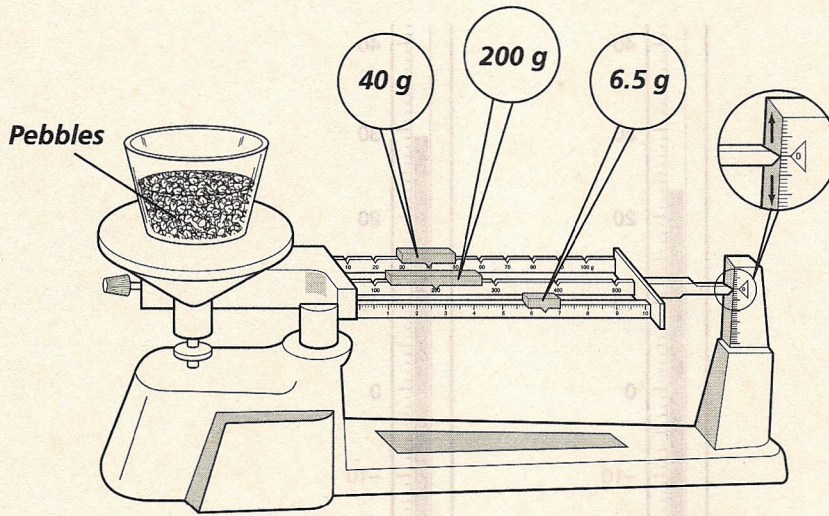
_____ 11. What is the volume of the water plus the rock?

_____ 12. What is the volume of the rock alone?



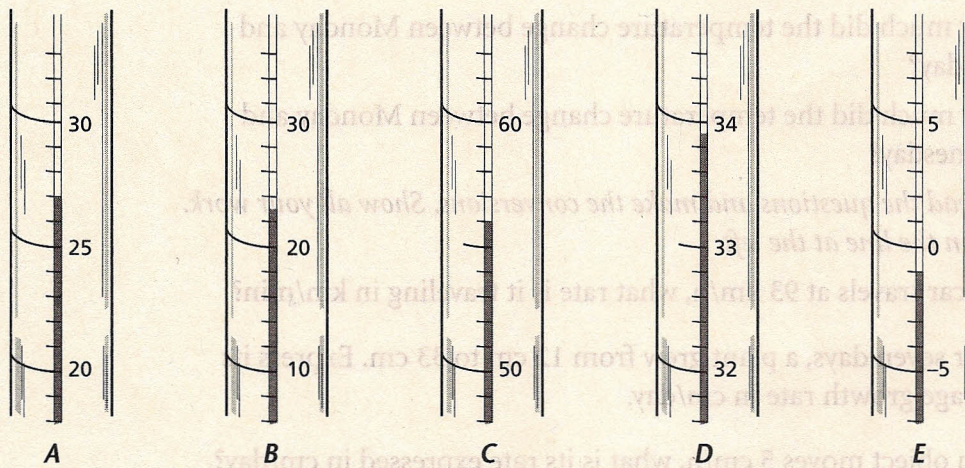
Skills Test B: Measuring and Calculating (continued)

Questions 13–14: Use the diagram below to answer each question. Write your answer on the line at the left.



- _____ 13. What is the mass of the container and the pebbles together?
- _____ 14. If the container has a mass of 5.5 grams, what is the mass of the pebbles?

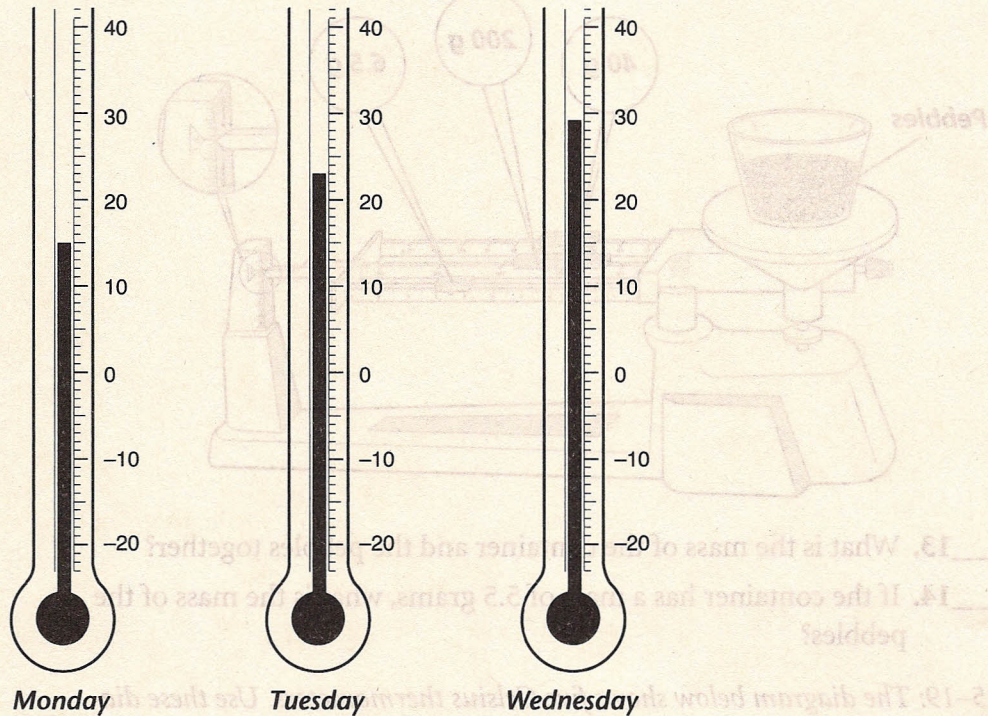
Questions 15–19: The diagram below shows five Celsius thermometers. Use these diagrams to answer each question. Write your answer on the line at the left.



- _____ 15. What is the temperature on Thermometer A?
- _____ 16. What is the temperature on Thermometer B?
- _____ 17. What is the temperature on Thermometer C?
- _____ 18. What is the temperature on Thermometer D?
- _____ 19. What is the temperature on Thermometer E?

Skills Test B: Measuring and Calculating (continued)

Questions 20–21: The diagram below shows three Celsius thermometers. Use these diagrams to answer each question. Write your answer on the line at the left.



_____ 20. How much did the temperature change between Monday and Tuesday?

_____ 21. How much did the temperature change between Monday and Wednesday?

Questions 22–25: Read the questions and make the conversions. Show all your work. Write your answer on the line at the left.

_____ 22. If a car travels at 93 km/h, what rate is it traveling in km/min?

_____ 23. Over seven days, a plant grew from 12 cm to 33 cm. Express its average growth rate in cm/day.

_____ 24. If an object moves 5 cm/h, what is its rate expressed in cm/day?

_____ 25. If you count 12 pulse beats in 10 s, what is the pulse rate in beats per minute?

Test B: Measuring and Calculating (pp. 75–78)

1. 7.5 cm
2. 75 mm
3. 3.3 cm
4. 33 mm
5. 42 mm
6. 2.2 mL
7. 15 mL
8. 44 mL
9. 40 cm^2
10. 90 cm^3
11. 65 mL
12. 25 mL
13. 246.5 g
14. 241 g
15. 27°C
16. 23°C
17. 56°C
18. 33.9°C
19. -1°C
20. 8°C
21. 14°C
22. 1.55 km/min
23. 3 cm/day
24. 120 cm/day
25. 72 beats per minute