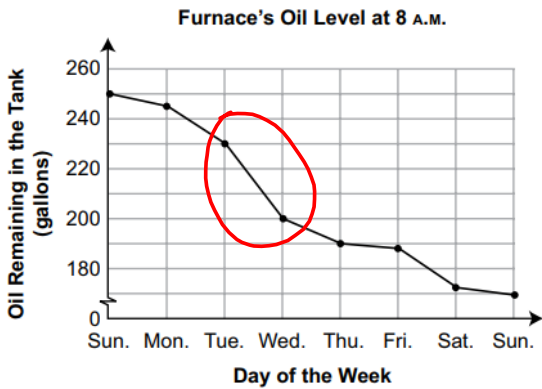


2.27.20

Zach is studying the school furnace's oil usage. He records the amount of oil remaining in the tank at 8 A.M. every day for a week. No additional oil is added to the tank during the week. The graph below shows his data.

At The Bell: PSSA:



Grab a calculator.

As the outdoor temperature gets colder, more oil is used to keep the indoor temperature constant. Based on the graph, which 24-hour time interval indicates the coldest period for the week?

- A. Sunday to Monday
- ☒ B. Tuesday to Wednesday
- C. Friday to Saturday
- D. Saturday to Sunday

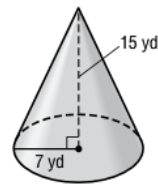
NAME _____ DATE _____ PERIOD _____

Math 8: Ch 8 Review (Form 1B)

Write the letter for the correct answer in the blank at the right of each question.

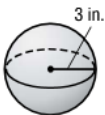
For Exercises 1–4, what is the volume of each solid? Round to the nearest tenth if necessary.

1. A. 329.9 yd³
B. 769.7 yd³
- C. 813.7 yd³
D. 2,309.1 yd³



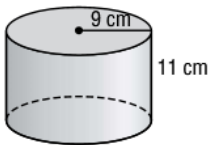
1. _____

2. F. 339.3 in³
G. 113.1 in³
- H. 84.9 in³
I. 9 in³



2. _____

3. A. 621.7 cm³
B. 932.6 cm³
- C. 2,799.2 cm³
D. 3,419.5 cm³



3. _____

4. F. 33.5 cm³
G. 44.6 cm³
- H. 133.8 cm³
I. 150.2 cm³



4. _____

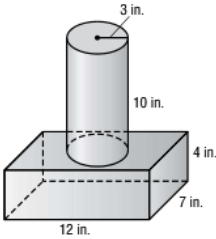
5. A cylindrical tea cup has a height of 7 centimeters, and its base has a radius of 3 centimeters. What is the volume of the tea cup to the nearest tenth?

- A. 28.3 cm³
B. 66.0 cm³
- C. 197.9 cm³
D. 395.8 cm³

5. _____

6. What is the volume of the composite shape to the nearest whole number?

- F. 619 in³
G. 366 in³
H. 336 in³
I. 283 in³



6. _____

NAME _____ DATE _____ PERIOD _____

7. The volume of a triangular prism is 42 cubic centimeters. What is the volume of a similar prism that is twice as large as the first prism?
- A. 21 cm³

C. 168 cm³

B. 84 cm³

D. 336 cm³
7. _____

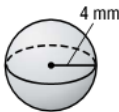
For Exercises 1–4, find the volume of each solid. Round to the nearest tenth if necessary.

8. A. 804.2 mm³

C. 201.1 mm³

B. 268.1 mm³

D. 134.0 mm³



8. _____

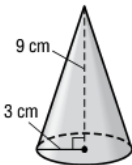
9. cylinder: diameter = 6 m
height = 18 m

F. 169.6 mm³

H. 508.9 mm³

G. 211.9 mm³

I. 791.3 mm³
10. A. 84.8 cm³
- C. 269.6 cm³
- B. 254.5 cm³
- D. 508.7 cm³



10. _____

11. cone: diameter = 5.5 m
height = 11.2 m

F. 376.9 in³

H. 1,005.3 in³

G. 377.0 in³

I. 3,015.9 in³

11. _____

12. The volume of a triangular prism is 84 cubic inches. What is the volume of a similar prism that is smaller by a scale $\frac{1}{2}$?
- F. 10.5 in³

H. 42 in³

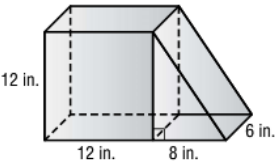
G. 21 in³

I. 168 in³
12. _____

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NAME _____ DATE _____ PERIOD _____

13. Mrs. Powell is making a piñata for her son’s birthday party. The piñata is shaped like the figure below. She wants to fill it with candy. What is the volume of the piñata? Use the *solve a simpler problem* strategy.



13. _____

14. A cone has a volume of 810 cubic meters. The area of the base is 90 square meters. What is the height of the cone?

14. _____

15. A cylindrical waste can has a volume of 2,474 cubic inches and the area of its base is about 177 square inches. Find the height of the waste can. Round to the nearest tenth.

15. _____

16. A hemisphere has a radius of 9 centimeters. Find the volume of the hemisphere. Round to the nearest tenth.

16. _____

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Assignment:
STUDY!

NAME _____ DATE _____ PERIOD _____

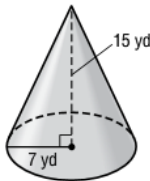
Math 8: Ch 8 Review (Form 1B)

Write the letter for the correct answer in the blank at the right of each question.

For Exercises 1–4, what is the volume of each solid? Round to the nearest tenth if necessary.

1. A. 329.9 yd³
B. 769.7 yd³

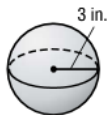
- C. 813.7 yd³
D. 2,309.1 yd³



1. B

2. F. 339.3 in³
G. 113.1 in³

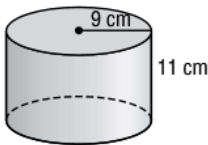
- H. 84.9 in³
I. 9 in³



2. G

3. A. 621.7 cm³
B. 932.6 cm³

- C. 2,799.2 cm³
D. 3,419.5 cm³



3. C

4. F. 33.5 cm³
G. 44.6 cm³

- H. 133.8 cm³
I. 150.2 cm³



4. G

5. A cylindrical tea cup has a height of 7 centimeters, and its base has a radius of 3 centimeters. What is the volume of the tea cup to the nearest tenth?

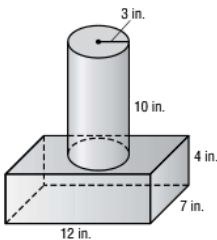
- A. 28.3 cm³
B. 66.0 cm³

- C. 197.9 cm³
D. 395.8 cm³

5. C

6. What is the volume of the composite shape to the nearest whole number?

- F. 619 in³
G. 366 in³
H. 336 in³
I. 283 in³



6. F

NAME _____ DATE _____ PERIOD _____

7. The volume of a triangular prism is 42 cubic centimeters. What is the volume of a similar prism that is twice as large as the first prism?
- A. 21 cm³

C. 168 cm³

B. 84 cm³

D. 336 cm³

7. **D**

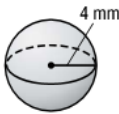
For Exercises 1–4, find the volume of each solid. Round to the nearest tenth if necessary.

8. A. 804.2 mm³

C. 201.1 mm³

B. 268.1 mm³

D. 134.0 mm³



8. **B**

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height = 18 m

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I. 791.3 mm³

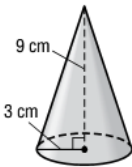
9. **H**

10. A. 84.8 cm³

C. 269.6 cm³

B. 254.5 cm³

D. 508.7 cm³



10. **A**

11. cone: diameter = 5.5 m
height = 11.2 m

- F. 376.9 in³

H. 1,005.3 in³

G. 377.0 in³

I. 3,015.9 in³

11. **F**

12. The volume of a triangular prism is 84 cubic inches. What is the volume of a similar prism that is smaller by a scale $\frac{1}{2}$?
- F. 10.5 in³

H. 42 in³

G. 21 in³

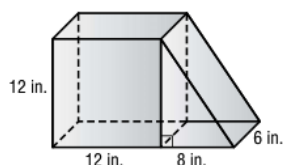
I. 168 in³

12. **F**

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NAME _____ DATE _____ PERIOD _____

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13. 1,152 in³

14. A cone has a volume of 810 cubic meters. The area of the base is 90 square meters. What is the height of the cone?

15. 27 m

15. A cylindrical waste can has a volume of 2,474 cubic inches and the area of its base is about 177 square inches. Find the height of the waste can. Round to the nearest tenth.

16. 14 in.

16. A hemisphere has a radius of 9 centimeters. Find the volume of the hemisphere. Round to the nearest tenth.