

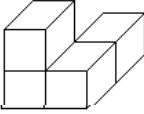
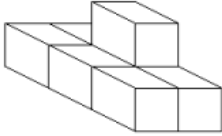
Name: _____ Class: _____ Date: _____

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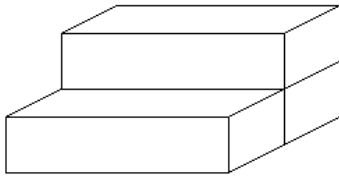
Chapter 1 Test Review

Multiple Choice

Identify the choice that best completes the statement or answers the question.

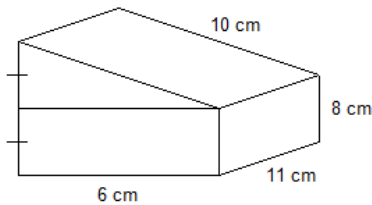
1. Determine the value of $\sqrt{2.56}$.
- 0.64
 - 1.6
 - 0.16
 - 0.8
2. Calculate the number whose square root is 8.1.
- 32.4
 - 65.61
 - 0.9
 - 81
3. Which decimal has a square root between 15 and 16?
- 272.3
 - 196
 - 15.5
 - 233.5
- iv
 - i
 - ii
 - iii
4. Which fraction has a square root between 3 and 4?
- $\frac{61}{7}$
 - $\frac{42}{5}$
 - $\frac{53}{5}$
 - $\frac{60}{7}$
- i
 - iv
 - ii
 - iii
5. Estimate the value of $\sqrt{0.95}$, to the nearest tenth.
- 0.9
 - 0.97
 - 1.0
 - 0.3
6. A square has an area of 27.8 cm^2 . Determine the side length of the square, to the nearest millimetre.
- 5.27 cm
 - 5 cm
 - 5.2 cm
 - 5.3 cm
7. The lengths of the two legs of a right triangle are 6.5 cm and 3.2 cm. Determine the length of the hypotenuse to 1 decimal place.
- 3.1 cm
 - 7.2 cm
 - 5.7 cm
 - 52.5 cm
8. This composite object is made using centimetre cubes. Determine its surface area.
- 
- 24 cm^2
 - 20 cm^2
 - 15 cm^2
 - 18 cm^2
9. This object is made from 7 centimetre cubes. Determine its surface area.
- 
- 20 cm^2
 - 28 cm^2
 - 42 cm^2
 - 26 cm^2

10. This object is made from 3 identical right rectangular prisms. Each prism is 65 cm long and has square ends of side length 20 cm. What is the surface area of the object?



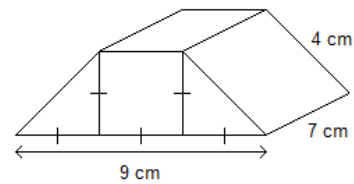
- a. 10 200 cm²
- b. 18 000 cm²
- c. 12 800 cm²
- d. 11 600 cm²

11. This object is composed of a right triangular prism on top of a right rectangular prism. Determine the surface area of the object.



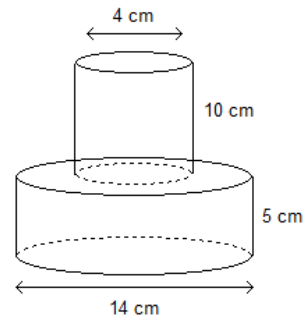
- a. 342 cm²
- b. 584 cm²
- c. 728 cm²
- d. 518 cm²

12. This object is composed of two right triangular prisms and a right rectangular prism. Determine the surface area of the object.



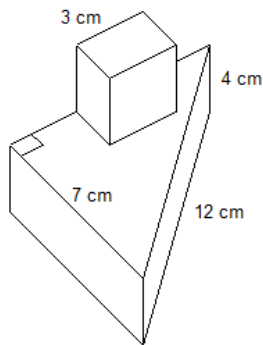
- a. 176 cm²
- b. 113 cm²
- c. 158 cm²
- d. 212 cm²

13. This object is composed of a cylinder of diameter 4 cm and height 10 cm on top of another cylinder of diameter 14 cm and height 5 cm. Determine the surface area of the object, to the nearest square centimetre.



- a. 500 cm²
- b. 657 cm²
- c. 661 cm²
- d. 653 cm²

14. A 3-cm cube is attached to the top of a right triangular prism as shown. Determine the surface area of the composite object, to the nearest square centimetre.

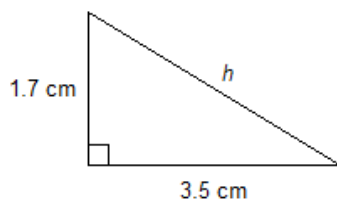


- a. 219 cm^2
- b. 185 cm^2
- c. 228 cm^2
- d. 210 cm^2

15. Determine the value of $\sqrt{0.25}$.
- a. 0.05
 - b. 0.125
 - c. 0.5
 - d. 0.0625

Short Answer

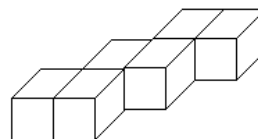
18. Determine the value of $\sqrt{2.89}$.
19. Determine the value of $\sqrt{\frac{289}{361}}$.
20. Determine the value of $\sqrt{0.27}$, to the nearest tenth.



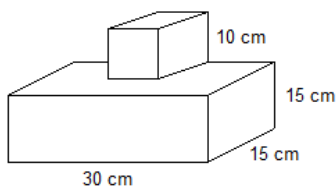
16. Which numbers are perfect squares?
- i) 42.25
 - ii) 32
 - iii) 28.9
 - iv) 3.24
- a. i and ii
 - b. i and iv
 - c. ii and iii
 - d. i and iii

17. Determine the value of $\sqrt{\frac{50}{72}}$.
- a. $\frac{5}{6}$
 - b. $\frac{5}{12}$
 - c. $\frac{25}{36}$
 - d. $\frac{10}{6}$

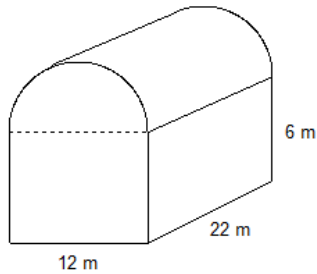
22. This composite object is made using centimetre cubes. Determine its surface area.



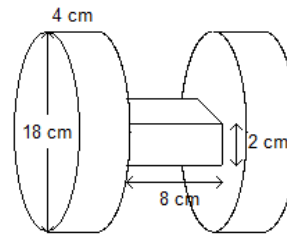
23. This object is composed of a cube on top of a right rectangular prism. Determine the surface area of the object.



24. A barn is built in the shape of a right rectangular prism with a semi-circular roof. Determine the surface area of the barn. Give your answer to the nearest whole number.



25. This object is composed of two identical cylinders connected by a right rectangular prism. Each cylinder has diameter 18 cm and height 4 cm. The rectangular prism has length 8 cm and square ends of side length 2 cm. Determine the surface area of the object. Give your answer to the nearest whole number.



Problem

26. Determine the value of $\sqrt{\frac{\sqrt{81} + \sqrt{49}}{\sqrt{196} - \sqrt{100}}}$.

Multiple Choice Answers:

- | | | | |
|------|-----------|-------|-------|
| 1. b | 6. d or a | 11. b | 16. b |
| 2. b | 7. b | 12. a | 17. a |
| 3. a | 8. d | 13. d | |
| 4. d | 9. d | 14. a | |
| 5. c | 10. c | 15. c | |

Short answers:

- | | | |
|-----------|--------------------------|--------------------------|
| 18) 1.7 | 21) 3.89 cm | 24) 936 m ² |
| 19) 17/19 | 22) 26 cm ² | 25) 1526 cm ² |
| 20) 0.52 | 23) 2650 cm ² | |