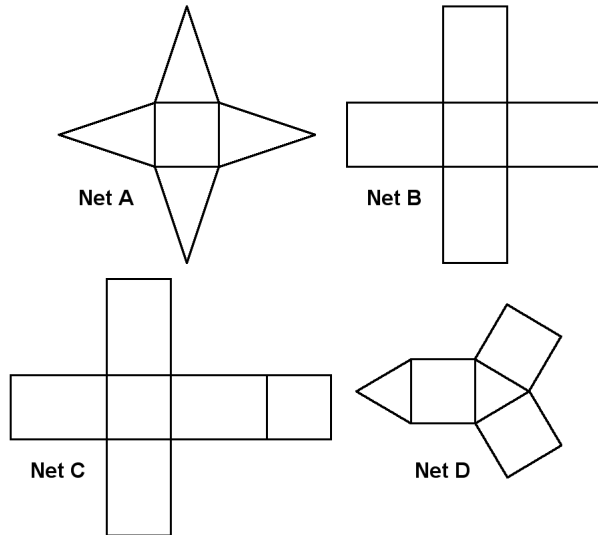


Final Exam Review - Unit 4

Multiple Choice

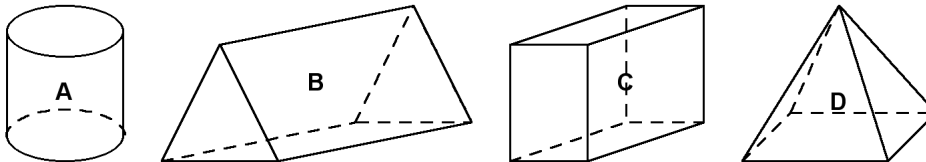
Identify the choice that best completes the statement or answers the question.

- _____ 1. Which diagram is the net for a square pyramid?



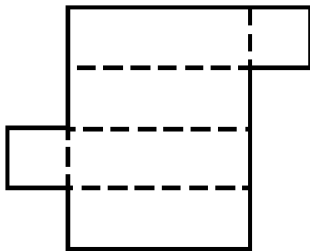
- a. Net A b. Net B c. Net C d. Net D

- _____ 2. Which object is NOT a prism?



- a. Object A b. Object B c. Object C d. Object D

- _____ 3. Name the polyhedron that can be made from this net.



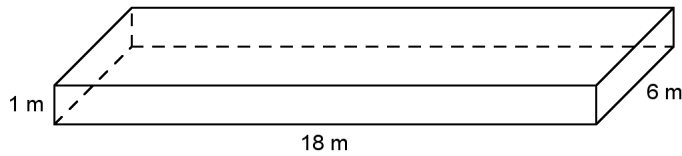
- a. Rectangular prism c. Rectangular pyramid
b. Hexagonal prism d. Hexagonal pyramid

Name: _____

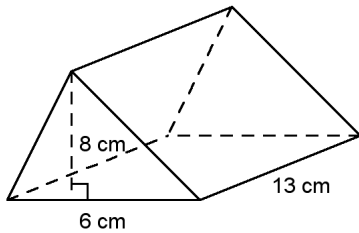
ID: A

- _____ 4. The area of one face of a cube is 25 cm^2 . What is the surface area of the cube?
- a. 100 cm^2 b. 100150 cm^2 c. 30 cm^2 d. 125 cm^2

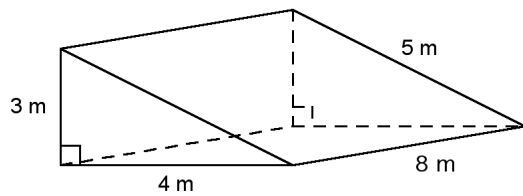
- _____ 5. Find the surface area of this right rectangular prism.



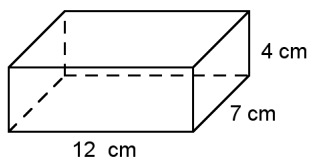
- a. 156 m^2 b. 48 m^2 c. 264 m^2 d. 132 m^2
- _____ 6. Calculate the area of the 2 triangular faces of this right triangular prism.



- a. 24 cm^2 b. 48 cm^2 c. 39 cm^2 d. 96 cm^2
- _____ 7. Calculate the surface area of this right triangular prism.



- a. 72 m^2 b. 108 m^2 c. 102 m^2 d. 120 m^2
- _____ 8. Find the volume of this rectangular prism.

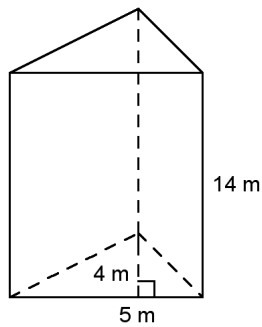


- a. 160 cm^3 b. 138 cm^3 c. 336 cm^3 d. 320 cm^3

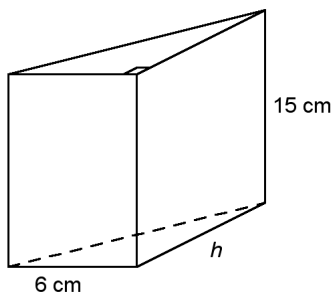
Name: _____

ID: A

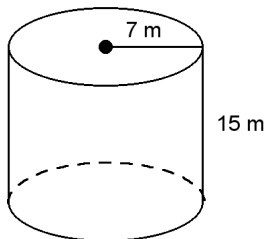
- _____ 9. Find the volume of this triangular prism.



- a. 560 m^3 b. 140 m^3 c. 292 m^3 d. 280 m^3
- _____ 10. The volume of this triangular prism is 405 cm^3 . Find the value of h .



- a. 9 cm b. 19.3 cm c. 18 cm d. 27 cm
- _____ 11. Find the surface area of this cylinder. Leave π in your answer.

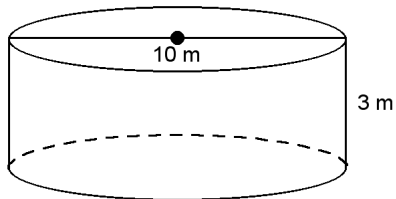


- a. $210\pi \text{ m}^2$ b. $308\pi \text{ m}^2$ c. $602\pi \text{ m}^2$ d. $238\pi \text{ m}^2$
- _____ 12. A paper cup has the shape of a perfect cylinder that is 6.9 cm tall and 3 cm across. Find the area of paper needed to make the cup. Use $\pi = 3.14$ and give the answer to the nearest square centimetre.
- a. 65 cm^2 b. 72 cm^2 c. 79 cm^2 d. 53 cm^2

Name: _____

ID: A

- _____ 13. Find the volume of this cylinder. Use $\pi = 3.14$.



- a. 942 cm³ b. 235.5 cm³ c. 188.4 cm³ d. 471 cm³
- _____ 14. The height of a cylindrical oil storage tank is 6 m and it has diameter 22 m.
If the tank is full, how much oil does it contain? Round your answer to the nearest kL. (1 kL = 1 m³)
- a. 207 kL b. 415 kL c. 2281 kL d. 908 kL

Final Exam Review - Unit 4

Answer Section

MULTIPLE CHOICE

1. ANS: A PTS: 1 DIF: Easy REF: 4.1 Exploring Nets
LOC: 8.SS2 TOP: Shape and Space (Measurement) KEY: Conceptual Understanding
2. ANS: A PTS: 1 DIF: Easy REF: 4.1 Exploring Nets
LOC: 8.SS2 TOP: Shape and Space (Measurement) KEY: Conceptual Understanding
3. ANS: A PTS: 1 DIF: Easy REF: 4.2 Creating Objects from Nets
LOC: 8.SS2 TOP: Shape and Space (Measurement) KEY: Conceptual Understanding
4. ANS: B PTS: 1 DIF: Easy
REF: 4.3 Surface Area of a Right Rectangular Prism LOC: 8.SS3
TOP: Shape and Space (Measurement) KEY: Conceptual Understanding
5. ANS: C PTS: 1 DIF: Moderate
REF: 4.3 Surface Area of a Right Rectangular Prism LOC: 8.SS3
TOP: Shape and Space (Measurement) KEY: Conceptual Understanding
6. ANS: B PTS: 1 DIF: Easy
REF: 4.4 Surface Area of a Right Triangular Prism LOC: 8.SS3
TOP: Shape and Space (Measurement) KEY: Conceptual Understanding
7. ANS: B PTS: 1 DIF: Moderate
REF: 4.4 Surface Area of a Right Triangular Prism LOC: 8.SS3
TOP: Shape and Space (Measurement) KEY: Conceptual Understanding
8. ANS: C PTS: 1 DIF: Easy
REF: 4.5 Volume of a Right Rectangular Prism LOC: 8.SS4
TOP: Shape and Space (Measurement) KEY: Conceptual Understanding
9. ANS: B PTS: 1 DIF: Easy
REF: 4.6 Volume of a Right Triangular Prism LOC: 8.SS4
TOP: Shape and Space (Measurement) KEY: Conceptual Understanding
10. ANS: A PTS: 1 DIF: Moderate
REF: 4.6 Volume of a Right Triangular Prism LOC: 8.SS4
TOP: Shape and Space (Measurement) KEY: Conceptual Understanding
11. ANS: B PTS: 1 DIF: Easy
REF: 4.7 Surface Area of a Right Cylinder LOC: 8.SS3
TOP: Shape and Space (Measurement) KEY: Conceptual Understanding
12. ANS: B PTS: 1 DIF: Moderate
REF: 4.7 Surface Area of a Right Cylinder LOC: 8.SS3
TOP: Shape and Space (Measurement) KEY: Conceptual Understanding | Problem-solving Skills
13. ANS: B PTS: 1 DIF: Moderate REF: 4.8 Volume of a Right Cylinder
LOC: 8.SS4 TOP: Shape and Space (Measurement) KEY: Conceptual Understanding
14. ANS: C PTS: 1 DIF: Moderate REF: 4.8 Volume of a Right Cylinder
LOC: 8.SS4 TOP: Shape and Space (Measurement)
KEY: Conceptual Understanding | Problem-solving Skills