

3D Geometry & Measurement

1. Congruent means having similar shape and size.

True

False

2. A pentagon has six sides.

True

False

3. A common name for a rectangular prism is a box.

True

False



4. Prisms and pyramids are named according to the shape of their bases.

True

False

5. Three-dimensional figures can be classified according to their properties.

True

False

6. A rectangle is not a parallelogram.

- True
- False



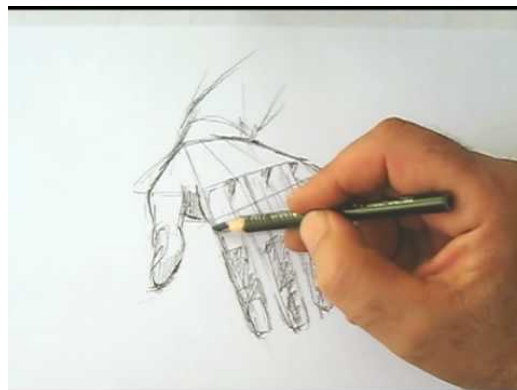
7. A pyramid can have a circular base.

- True
- False



8. The front, top and side views of objects are three-dimensional drawings.

- True
- False



9. A net is a two-dimensional drawing that can be folded up to make a three-dimensional figure.

- True
- False

10. Surface area is measured in **cubic units**.

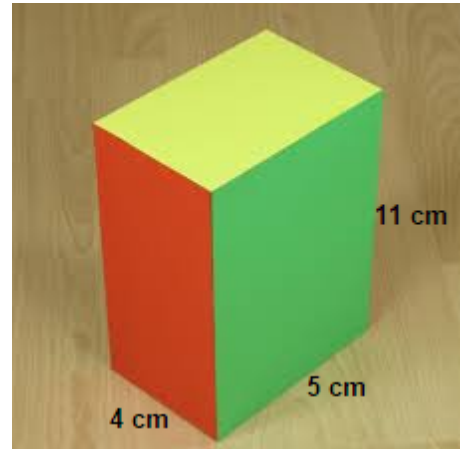
- True
- False

11. The **total surface area** of a 7cm cube is _____.

- (A) 35cm squared
- (B) 42cm squared
- (C) 294cm squared
- (D) 42cm cubed

12. The **total surface area** of this rectangular prism is _____.

- (A) 220 cm squared
- (B) 246 cm squared
- (C) 238 cm squared
- (D) 246 cm cubed



13. Identify the following three-dimensional figure.

- (A) cylinder
- (B) triangular prism
- (C) sphere
- (D) rectangular prism



14. A polyhedron with 2 pentagonal faces and 5 rectangles is a _____.

- (A) hexagonal prism
- (B) sphere
- (C) triangular prism
- (D) pentagonal prism

15. I am a polyhedron that has 8 faces, 18 edges and 12 vertices. What 3D figure am I?

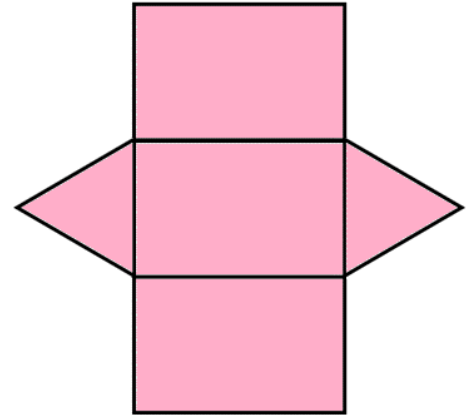
- (A) hexagonal prism
- (B) triangular prism
- (C) hexagonal pyramid
- (D) octagonal prism

16. I have only 2 congruent faces. What 3D figure am I?

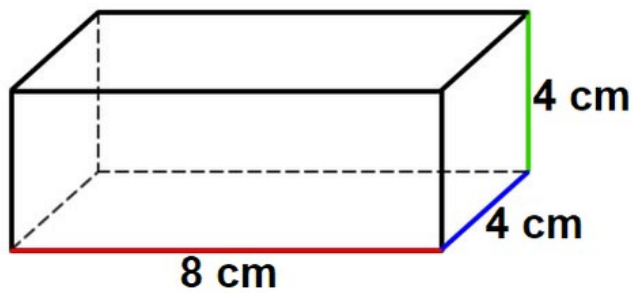
- (A) cube
- (B) pentagonal prism
- (C) square-based pyramid
- (D) cylinder

17. Name the polyhedron that can be made by folding the following net.

- (A) triangular prism
- (B) pentagonal pyramid
- (C) triangular pyramid
- (D) pentagonal prism



18.



Find the **total surface area** of this rectangular prism.

- (A) 177 cm squared
- (B) 160 cm squared
- (C) 165 cm squared
- (D) 150 cm squared

19.



What is the **volume** of a box that with the dimensions of 8cm by 10 cm by 5cm?

- (A) 400 cm cubed
- (B) 23 cm cubed
- (C) 85 cm cubed
- (D) 340 cm cubed

20. The **volume** of a classroom is 440 m cubed. What are the dimensions?

- (A) 12 m by 2 m by 5 m
- (B) 6 m by 12 m by 5 m
- (C) 7 m by 9 m by 6 m
- (D) 8 m by 5 m by 11 m

