socrative
A **showbie** PRODUCT

3D Geometry & Measurement

1. Congruent means having similar shape and size.

(T) True

(F) False

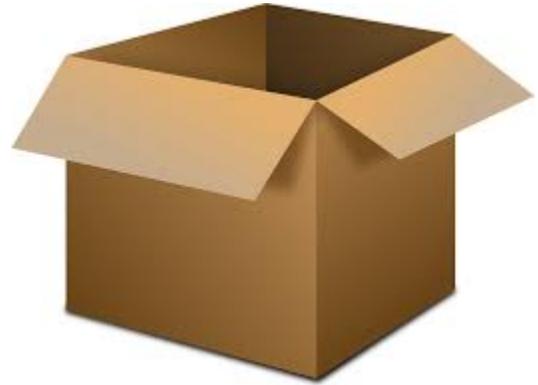**2.** A pentagon has six sides.

(T) True

(F) False

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

(T) True

(F) False

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

(T) True

(F) False

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

(T) True

(F) False

6. A rectangle is not a parallelogram.
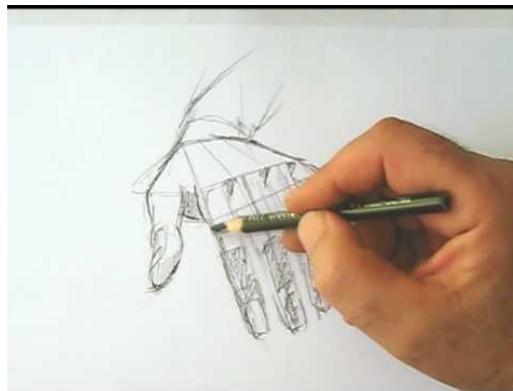
(T) True

(F) False

7. A pyramid can have a circular base.

(T) True

(F) False

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

(T) True

(F) False

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

(T) True

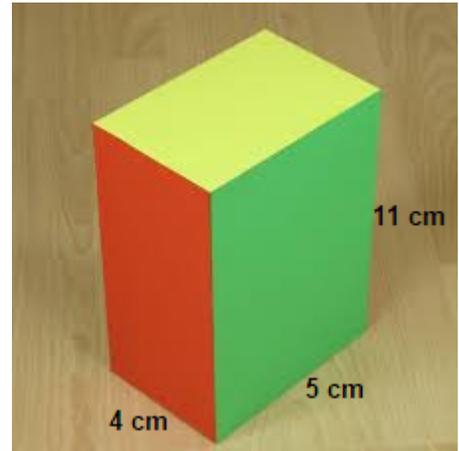(F) False

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

(T) True

(F) 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

11 cm

5 cm

4 cm

13. Identify the following three-dimensional figure.

(A) cylinder

(B) triangular prism

(C) sphere

(D) rectangular prism

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

(A) hexagonal prism

(B) sphere

(C) triangular prism

(D) pentagonal prism

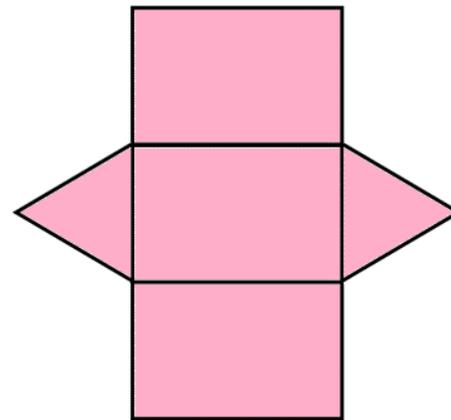**15.** I am a polyhedron that has 8 faces, 18 edges and 12 vertices. What 3D figure am I?

(A) hexagonal prism

(B) triangular prism

(C) hexagonal pyramid

(D) octagonal prism

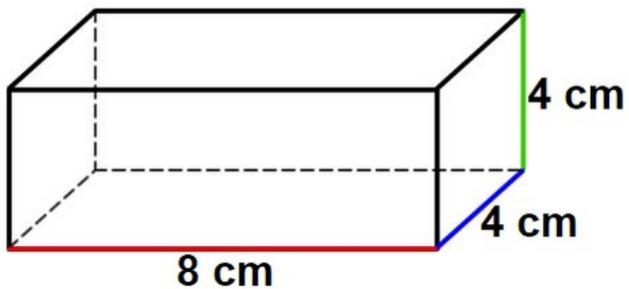**16.** I have only 2 congruent faces. What 3D figure am I?

(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

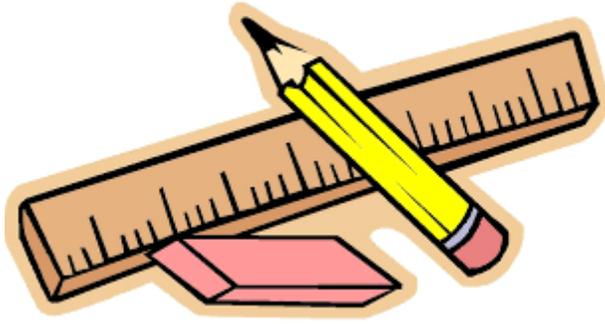(B) pentagonal pyramid

(C) triangular pyramid

(D) pentagonal prism

18.

4 cm

4 cm

8 cm

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