QUIZIZZ

Surface area of rect prisms Tier A

14 Questions

NAME : _____

CLASS : _____

DATE : _____

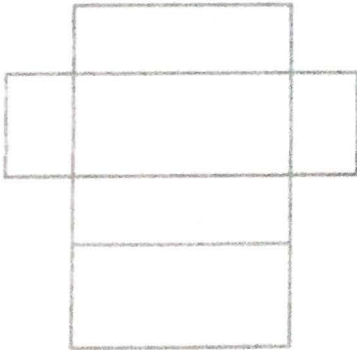1. How do you find the surface area of a 3 dimensional object? $SA = 2(lw) + 2(wh) + 2(lh)$

   ☐ a) Divide the area of the base by 2 and multiply by the height.

   ☐ b) Divide the sum of the bases and multiply by the height.

   ☐ c) Multiply the sum of all the faces by two.

   ☐ d) Find the sum of all of the areas of all of the faces.

2. A cube is measured at 4 cm in length, what is the surface area?

   4 cm 4 cm

   ☐ a) 96 cm^2

   ☐ b) 16 cm^2
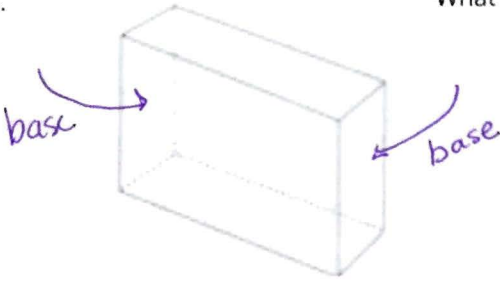
   ☐ c) 64 cm^2
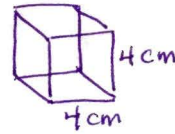
3.

   What 3D solid does this net create?

   when you fold it up.

   ☐ a) Rectangular Prism

   ☐ b) Rectangular Pyramid

   ☐ c) Cube

   ☐ d) Square Prism
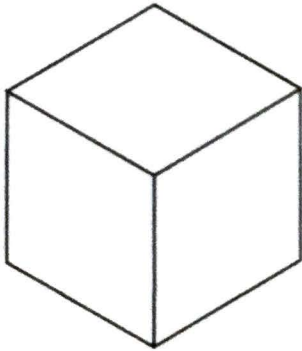
4.

What is the base of this rectangular prism?

base *base*

- [ ] a) rectangle
- [ ] b) triangle
- [ ] c) square
- [ ] d) circle

5.

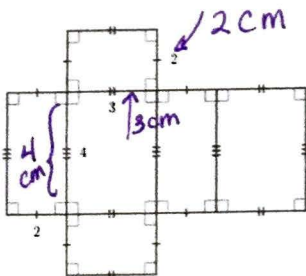How many total faces does this shape have? (hint: include the ones you don't see!)

Think of a die.

- [ ] a) 3
- [ ] b) 5
- [ ] c) 1
- [ ] d) 6

6.

2 cm

3 cm

4 cm

Find the surface area of the figure formed by the net with 2 cm , 3 cm, and 4 cm edges below.

- [ ] a) 40 cm^2
- [ ] b) 48 cm^2
- [ ] c) 52 cm^2
- [ ] d) 62 cm^2

7.
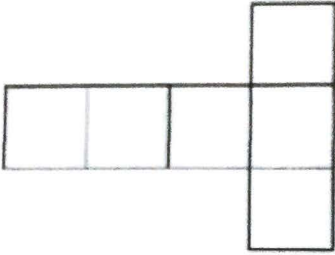
What do we call this object below?

- [ ] a) Net
- [ ] b) Triangle
- [ ] c) Geometry
- [ ] d) $y = mx + b$

8.

vertex
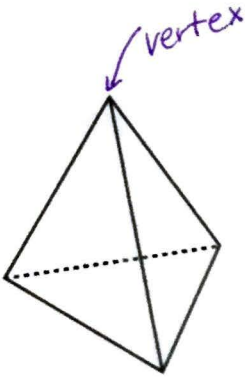
How many vertices are on this shape?

- [ ] a) 0
- [ ] b) 16
- [ ] c) 4
- [ ] d) 24

9.
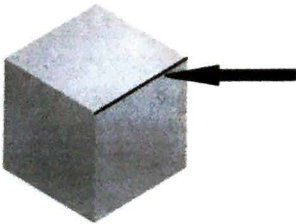
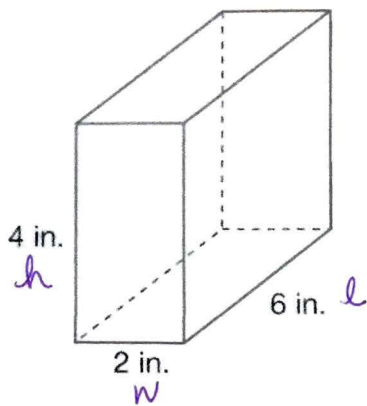The lines where 2 faces meet are called...

- [ ] a) edges
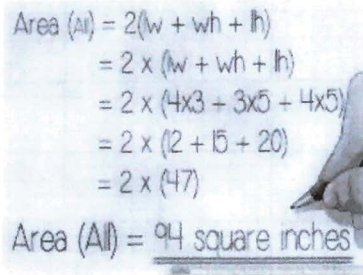- [ ] b) outside
- [ ] c) faces
- [ ] d) vertices

10.

Find the total surface area of the prism.

$$2(lw) \oplus 2(wh) + 2(lh)$$
multiply (1st)   (+) then add   mult 1st   (+) then add   mult 1st

4 in. h

6 in. l

2 in. w

☐ a) 48 square inches   ☐ b) 64 square inches

☐ c) 88 square inches   ☐ d) 76 square inches

11. What is surface area?

☐ a) Inside of the object

☐ b) The sum of all the areas of all the shapes that cover the surface of the object.

☐ c) Something Mrs. MacGregor made up?

☐ d) Surface area is what you get when you boil unicorn tears.

12. Which example requires you to find the surface area?

☐ a) Finding out how much water will fill a cylinder

☐ b) Finding out how much wrapping paper is needed to cover a present

☐ c) Finding the amount a container can hold

☐ d) Finding out how much wood is needed to build a fence in your back yard.

13. A 3-dimensional figure comprised of rectangular sides:

☐ a) A Rectangle

☐ b) A Rectangular Prism

☐ c) Wrapping paper

☐ d) A net

14.

Area (All) = 2(lw + wh + lh)
= 2 x (lw + wh + lh)
= 2 x (4x3 + 3x5 + 4x5)
= 2 x (12 + 15 + 20)
= 2 x (47)

Area (All) = <u>94</u> square inches

This student is finding. . .

☐ a) Rectangular Prism

☐ b) Area

☐ c) Volume

☐ d) Surface Area