

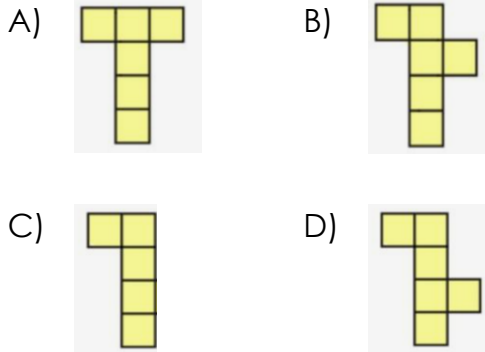
Math 6 - Unit 5: Geometry

Unit 5 Interim Assessment Study Guide

Name: _____

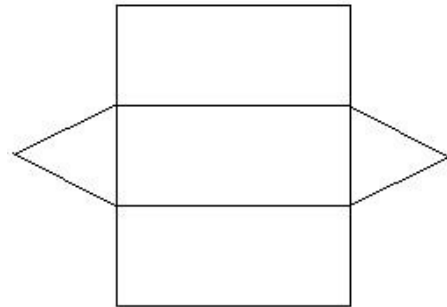
Class Period: 1 2 3 4 Date: _____

1) Which figure could **NOT** be folded along the dotted lines to form a cube?



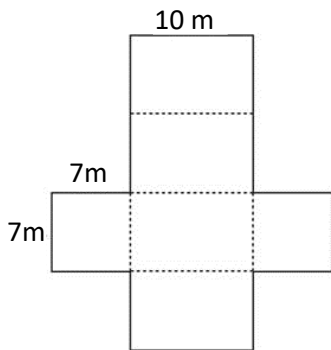
Answer: _____

2) Which 3-dimensional object was created from the net shown?



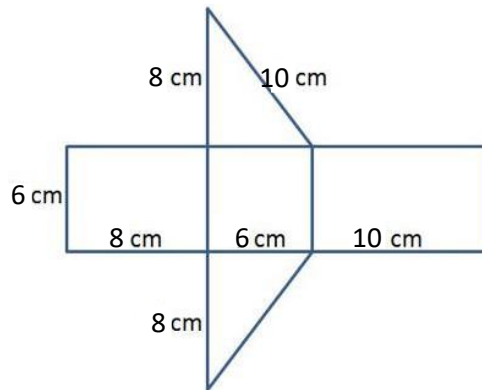
Answer: _____

3) Zoe is making a rectangular box with measurements as shown below. What is the surface area of the box?



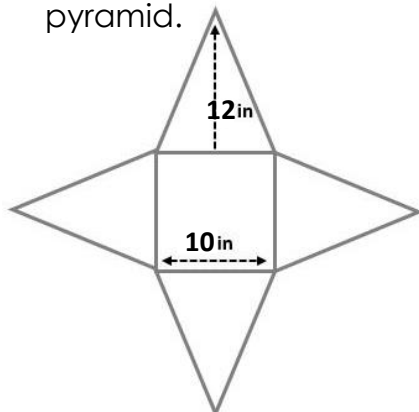
Answer: _____

4) What is the surface area of the triangular prism?



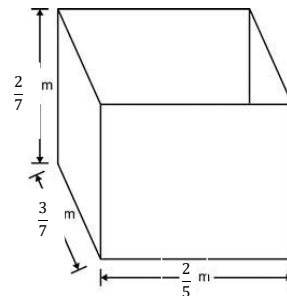
Answer: _____

5) Find the surface area of the square pyramid.



Answer: _____

6) Charlie made a planter shaped like a rectangular prism. The edge lengths of the planter are given in meters (m), as



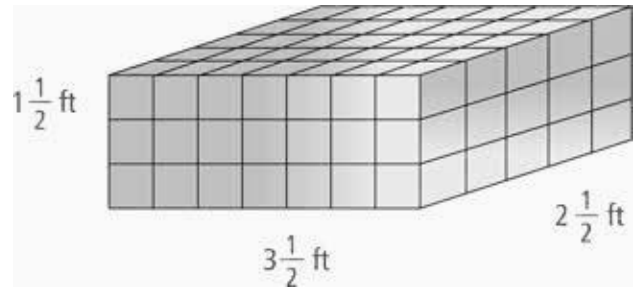
What is the volume of the planter?

Answer: _____

7) An ice machine produces ice cubes that are $\frac{2}{3}$ inch on each side. What is the volume, in cubic inches, of one ice cube produced by this machine?

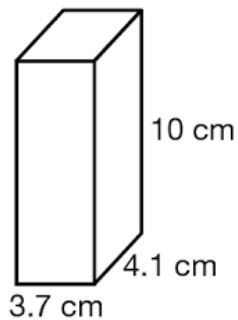
Answer: _____

8) A box in the shape of a rectangular prism is shown. The box contains $\frac{1}{2}$ -inch number cubes. What is the volume of the box?



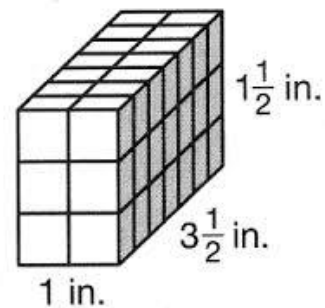
Answer: _____

9) Maria has a gift box shaped like a rectangular prism. What is the volume of the box?



Answer: _____

10) A storage box is shaped like a rectangular prism, as shown below. Skylar stored $\frac{1}{2}$ -inch cubes in the box. How many cubes are needed to completely fill the box?



Answer: _____

Math 6 - Unit 5: Geometry

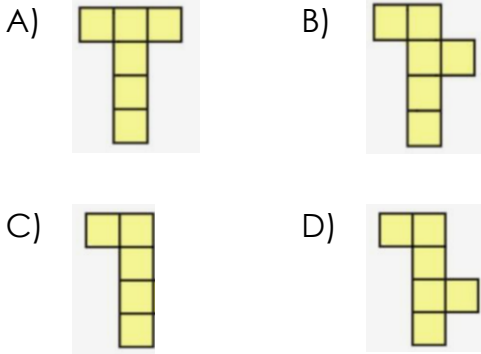
Unit 5 Interim Assessment Study Guide

ANSWER KEY

Name: _____

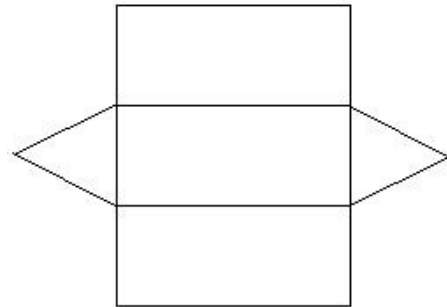
Class Period: 1 2 3 4 Date: _____

1) Which figure could **NOT** be folded along the dotted lines to form a cube?



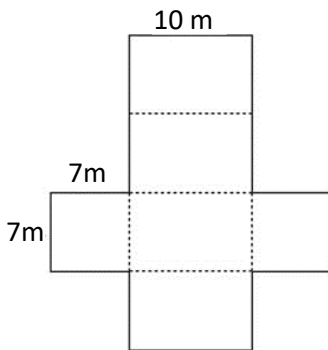
Answer: **C**

2) Which 3-dimensional object was created from the net shown?



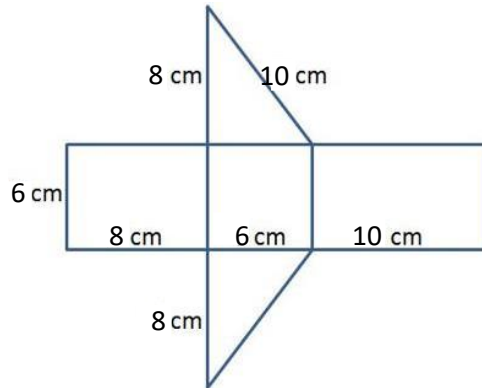
Answer: **Triangular Prism**

3) Zoe is making a rectangular box with measurements as shown below. What is the surface area of the box?



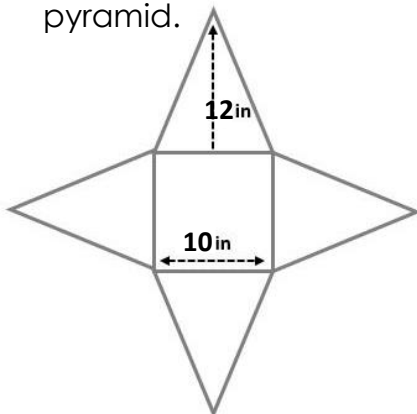
Answer: **378 m²**

4) What is the surface area of the triangular prism?



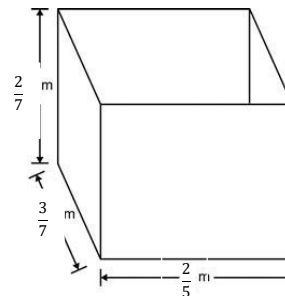
Answer: **208 cm²**

5) Find the surface area of the square pyramid.



Answer: **340 in²**

6) Charlie made a planter shaped like a rectangular prism. The edge lengths of the planter are given in meters (m), as



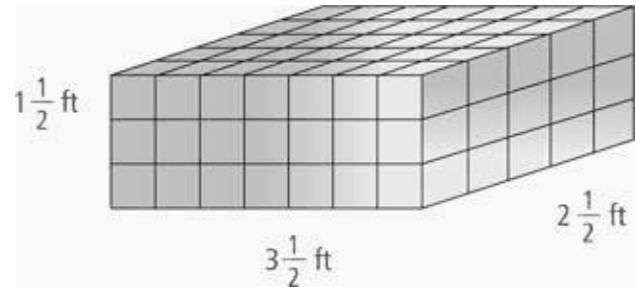
What is the volume of the planter?

Answer: **245 m³**

7) An ice machine produces ice cubes that are $\frac{2}{3}$ inch on each side. What is the volume, in cubic inches, of one ice cube produced by this machine?

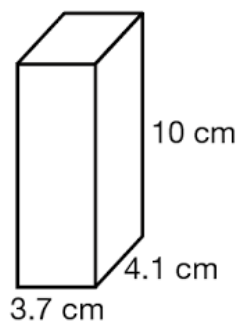
Answer: $\frac{8}{27} \text{ in}^3$

8) A box in the shape of a rectangular prism is shown. The box contains $\frac{1}{2}$ -inch number cubes. What is the volume of the box?



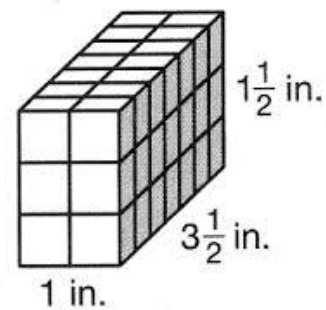
Answer: $\frac{105}{8}$ or $13\frac{1}{8} \text{ ft}^3$

9) Maria has a gift box shaped like a rectangular prism. What is the volume of the box?



Answer: 151.7 cm^3

10) A storage box is shaped like a rectangular prism, as shown below. Skylar stored $\frac{1}{2}$ -inch cubes in the box. How many cubes are needed to completely fill the box?



Answer: $\frac{21}{4}$ or $5\frac{1}{4} \text{ in}^3$