SEMESTER EXAM REVIEW

MAY 2016

Find the total area of the figure below.
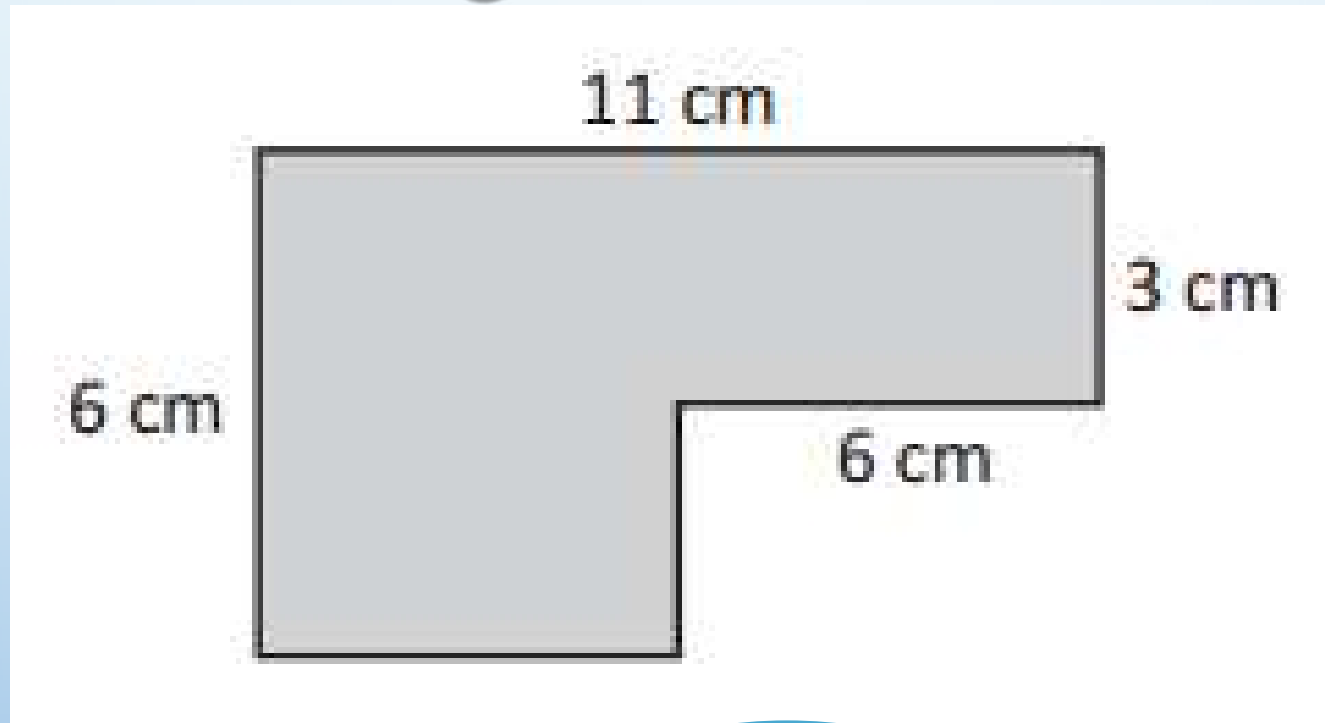
A. 24   B. 48

C. 60   D. 84

Name the point with
the given coordinates.
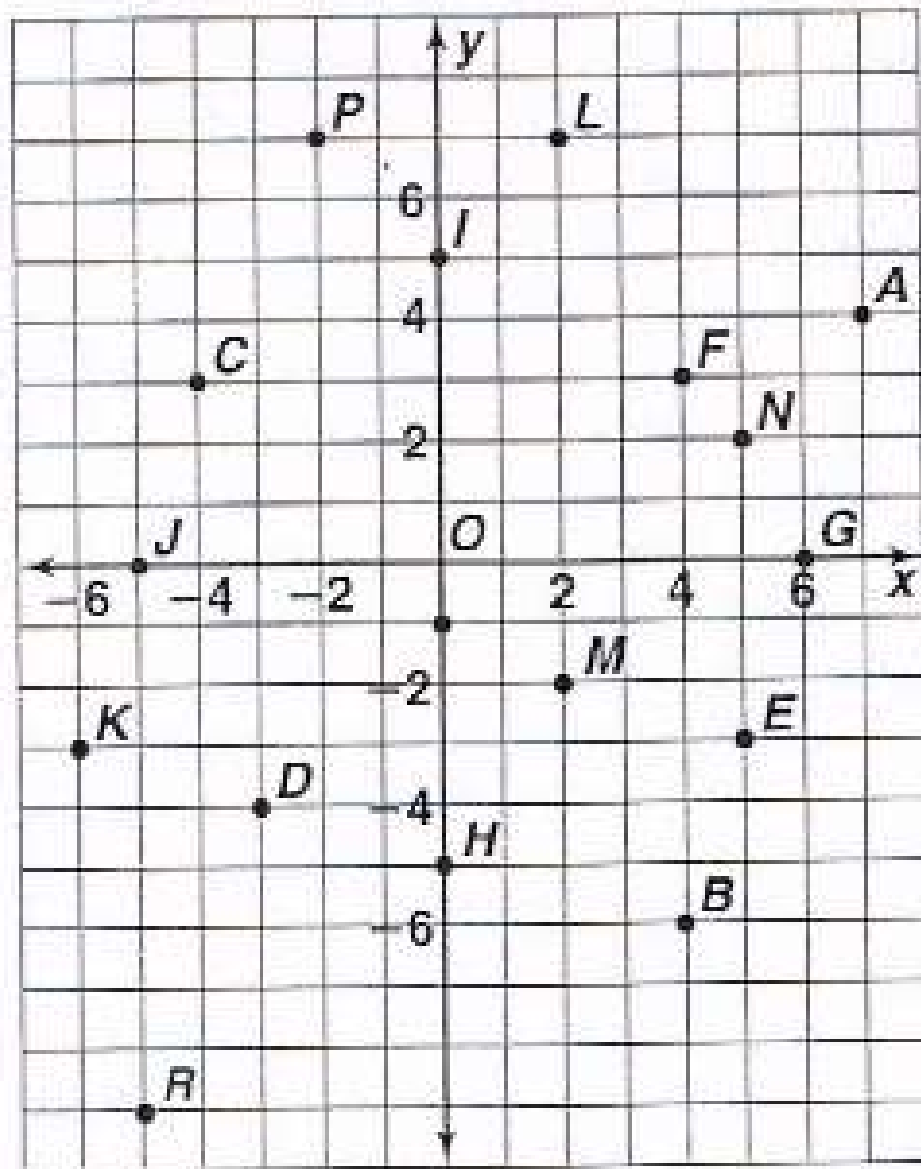1. (-4, 3)   C
2. (7, 4)   A
3. (0, -5)   H
4. (4, -6)   B
5. (-3, -4)   D

Give the distance between each set of ordered pairs.

1. (-6, 1), (-6, 8)   7 units
2. (3, -4), (1, -4)   2 units
3. (4, 6), (4, -6)   12 units
4. (-3, -8), (1, -8)   4 units
5. (-5, -9), (-5, -1)   8 units

Triangle ABC has vertices at (-5, 4), (-2, 8), and (-1, 1).

1. In which quadrant does the triangle lie?

II

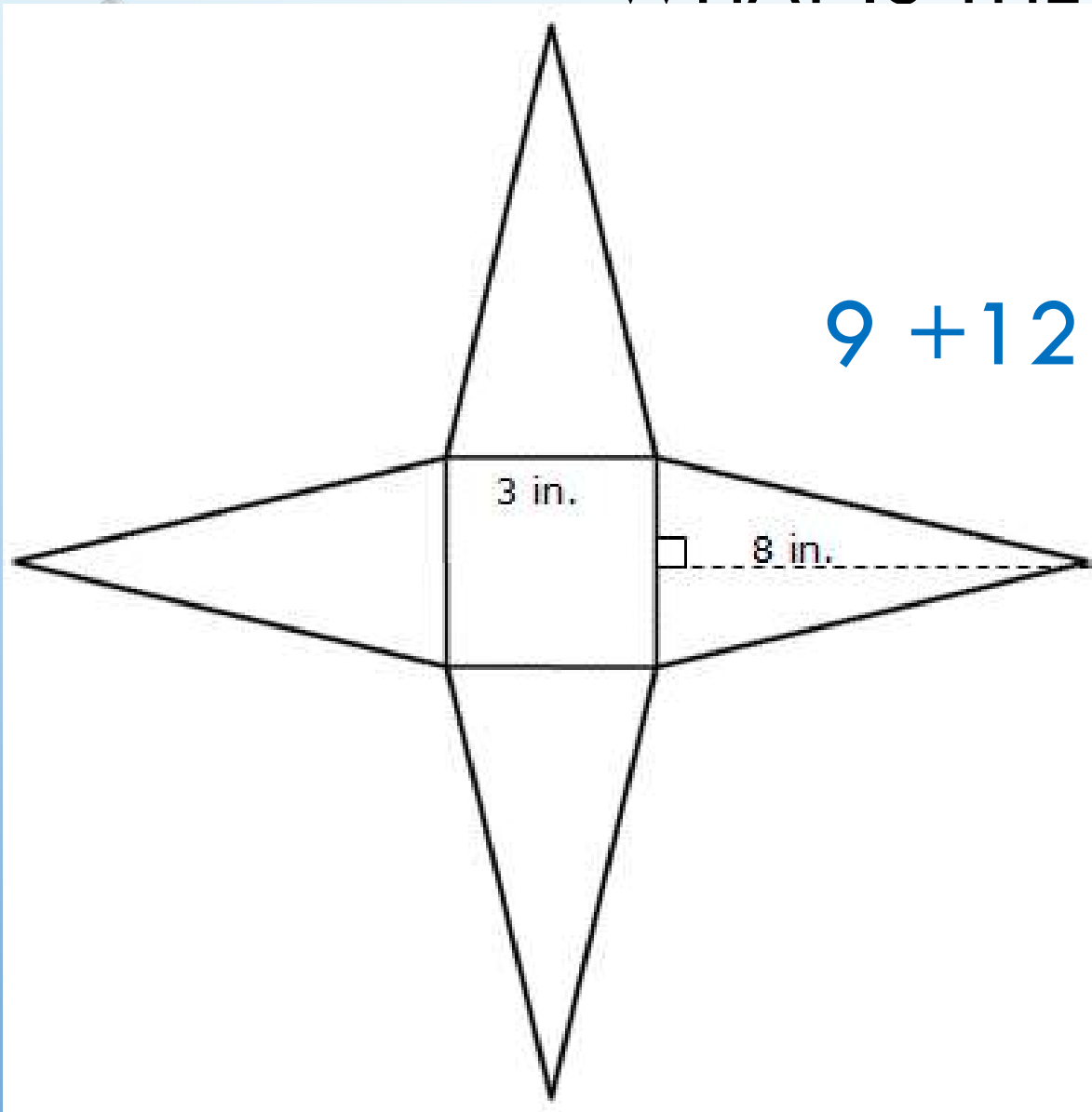2. Give the ordered pairs for an image reflected over the y-axis.

(5, 4), (2, 8), (1, 1)

3. Give the ordered pairs for an image reflected over the x-axis.

(-5, -4), (-2, -8), (-1, -1)

WHAT IS THE SURFACE AREA?

3 in.
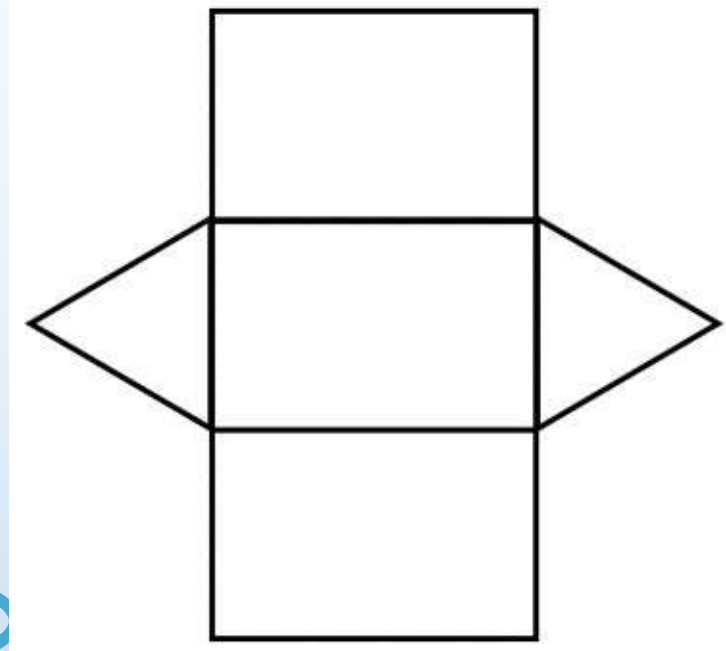
8 in.

$9 + 12 + 12 + 12 + 12 = 57$ in²

Susan has a jewelry box that is $8\frac{1}{2}$ inches long, $4\frac{1}{2}$ inches wide and $3\frac{1}{3}$ inches tall. What is the volume of her jewelry box? (in fraction form)

8.5(4.5)(3.33333)= $127\frac{1}{2}$ in³

Which solid figure could you form from this net?

a. Triangular prism

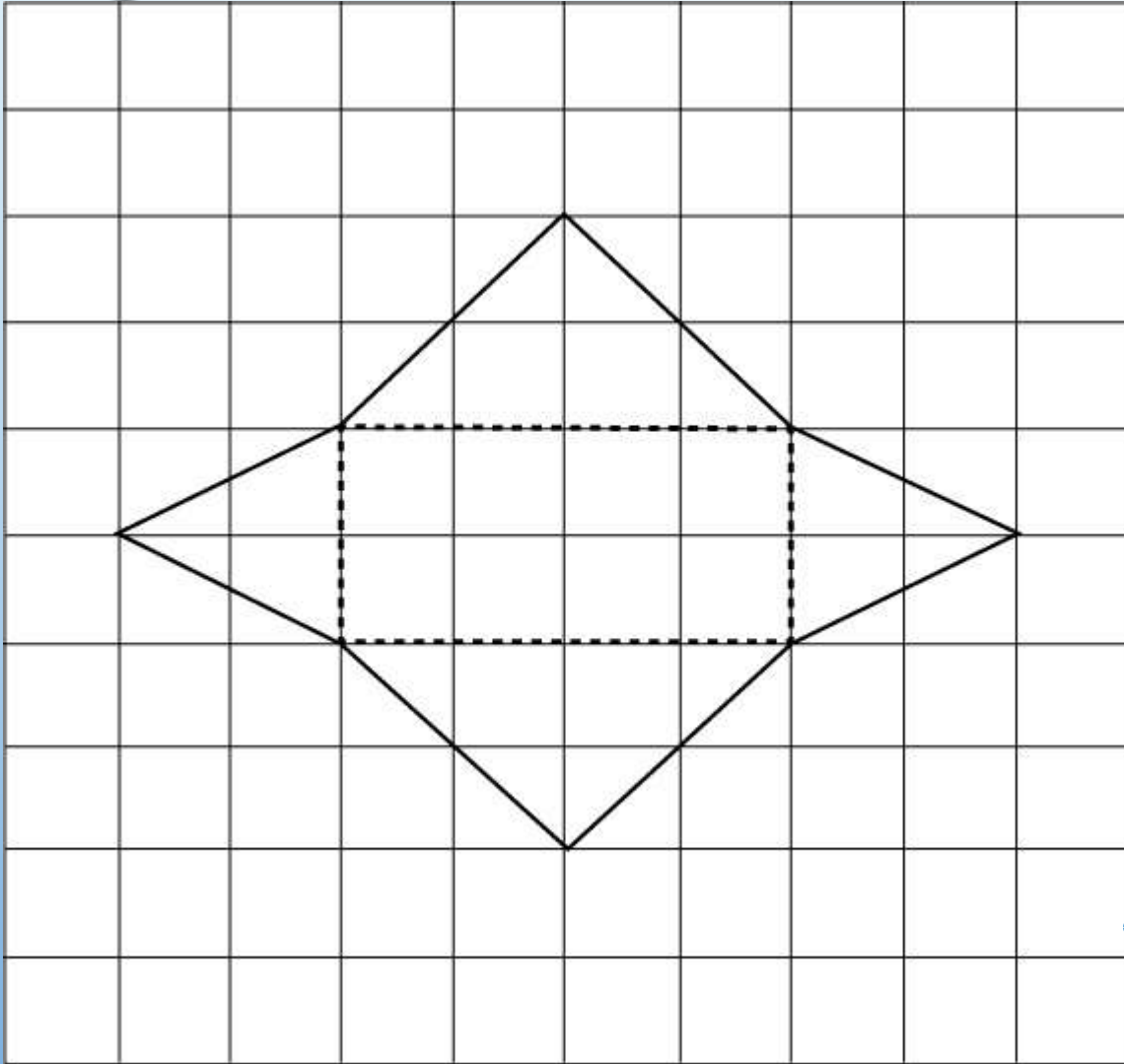b. Rectangular prism

c. Triangular pyramid

d. Square pyramid

JANICE COLLECTED THE HEIGHTS, IN INCHES, OF HER CLASSMATES. THIS DATA IS SHOWN BELOW.

65, 70, 60, 58, 60, 63, 65, 66

58, 60, 60, 63, 65, 65, 66, 70

a. What is the mode? **60 & 65**

b. What is the median height? **64**

c. What is the mean (average) height? **507 ÷ 8 = 63.375**

d. What is the range? **70 – 58 = 12**

e. What is the outlier? **70** How many feet is that? **5' 10"**

FIND THE SURFACE AREA.

$8 + 2 + 2 + 4 + 4 = 20$ units^2

Which solid figure could you form from this net?
a. Triangular prism
b. Rectangular prism
c. Triangular pyramid
d. Rectangular pyramid

WHICH QUESTION BELOW IS A STATISTICAL QUESTION?

A. HOW TALL ARE YOU?

B. HOW TALL IS THE TALLEST PERSON IN YOUR CLASS?

C. HOW TALL ARE THE STUDENTS ON THE BASKETBALL TEAM?

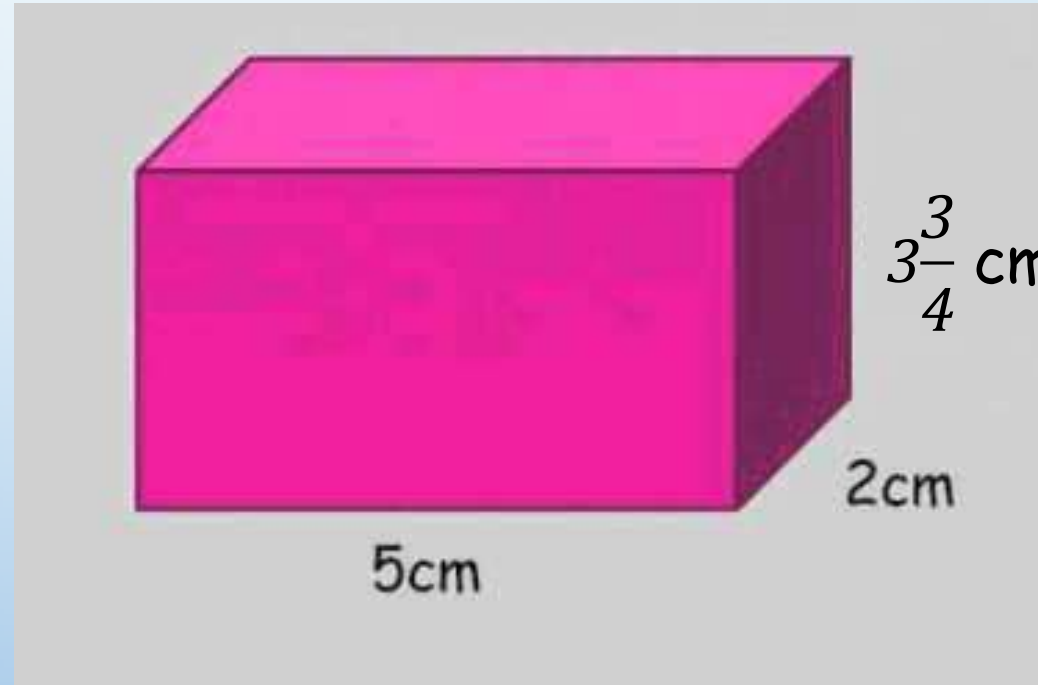D. HOW TALL IS THE FLAGPOLE IN FRONT OF YOUR SCHOOL?
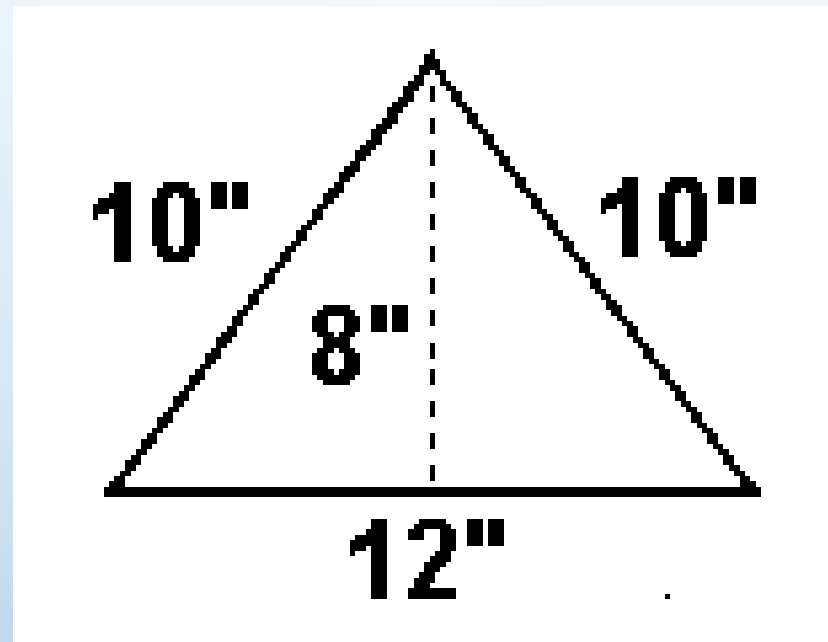
WHAT IS THE VOLUME OF THE SHAPE BELOW?
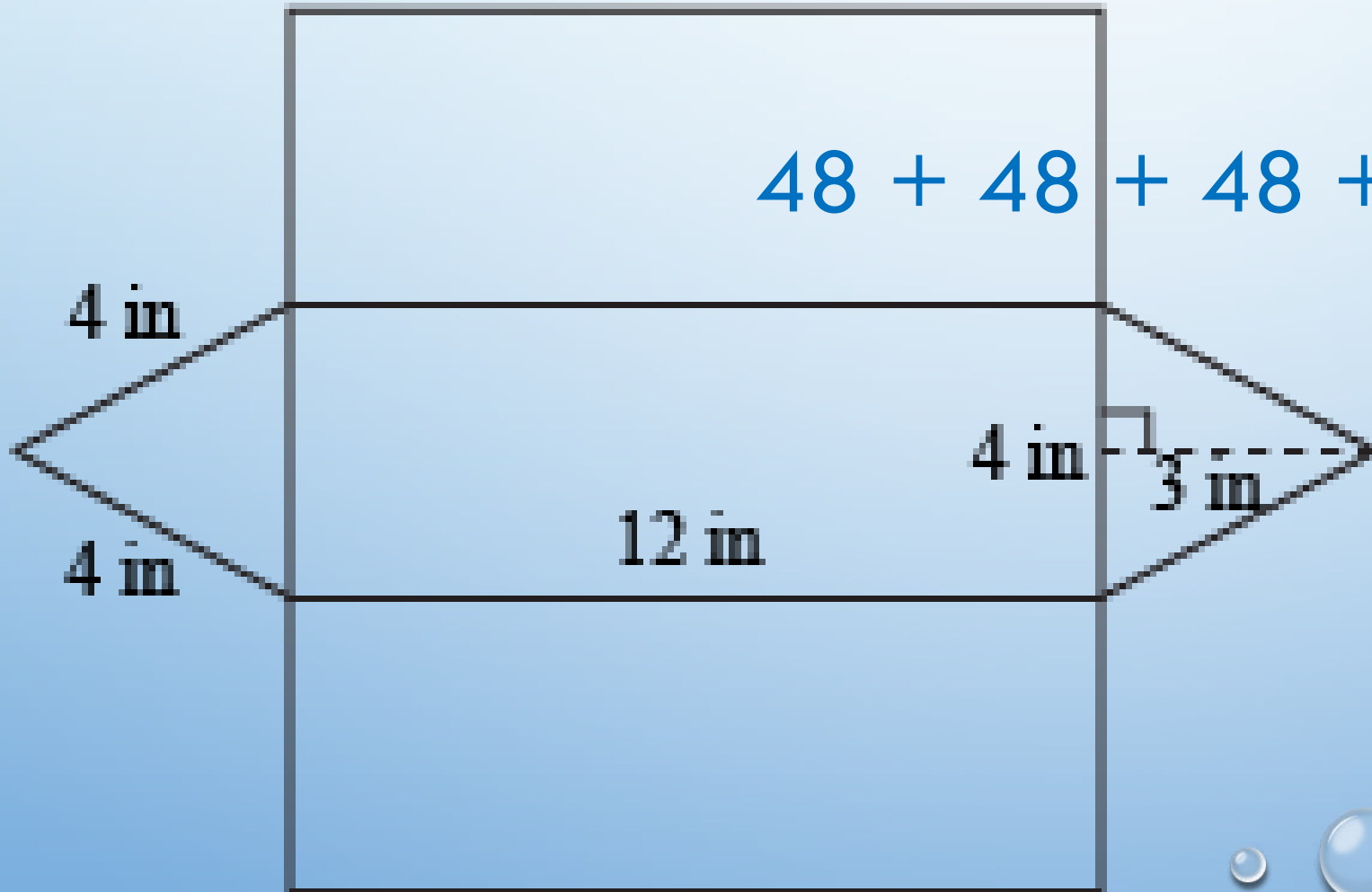
A. 10.25 cm³

B. 37.5 cm³

C. 62.5 cm³

D. 81.25 cm³

$3\frac{3}{4}$ cm

2cm

5cm

A. 96 IN^2 B. 36 IN^2
C. 80 IN^2 D. 48 IN^2

WHAT IS THE SURFACE AREA OF THE NET BELOW?

$48 + 48 + 48 + 6 + 6 = 156 \text{ in}^2$

4 in

4 in

4 in

12 in

3 in
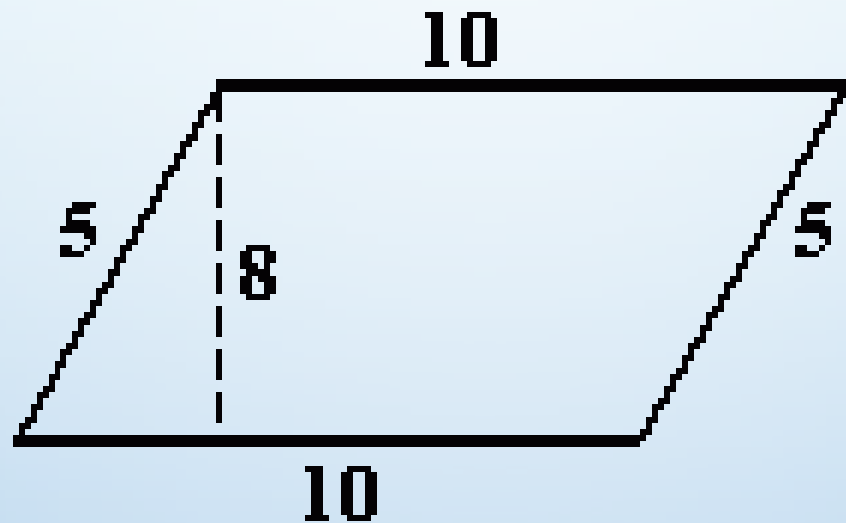
A. 40 UNITS^2 B. 100 UNITS^2
C. 80 UNITS^2 D. 2000
UNITS^2