

6 – GSS – PRE TEST (1 QUESTION). LEVEL:

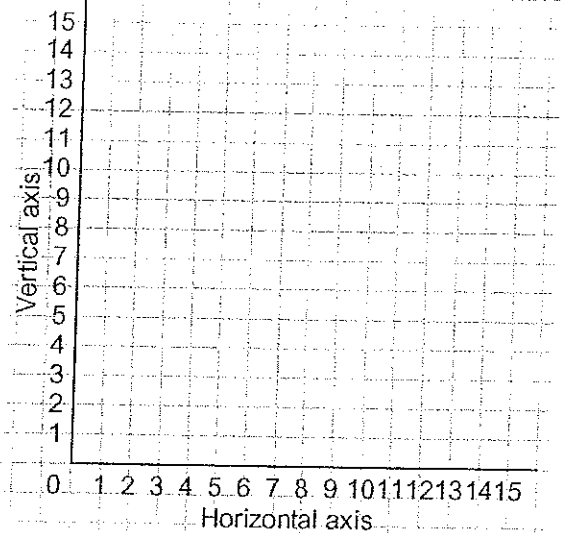
FIRST NAME, LAST NAME:

CLASS:

Rectangle MNPQ has these vertices:

M(1, 3), N(4, 6), P(6, 4), Q(3, 1)

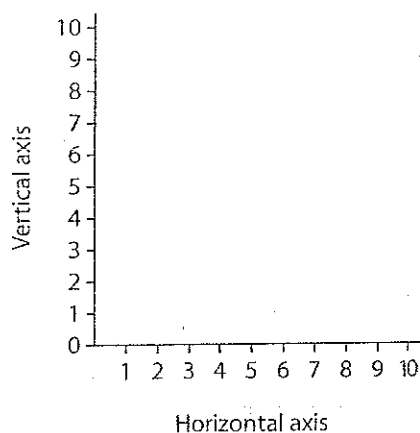
- Draw MNPQ on the grid.
- Rotate MNPQ 180° about (4, 7).
- Then, reflect the rotation image in a vertical line through (7, 0).
- Find the coordinates of the final image.



6 – GSS – BENCHMARK TEST #1 (7 QUESTIONS). LEVEL:

FIRST NAME, LAST NAME:	CLASS:
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Draw a figure for which a translation image
could also be a reflection image.
Draw the image. Write the coordinates
of the figure and the image.



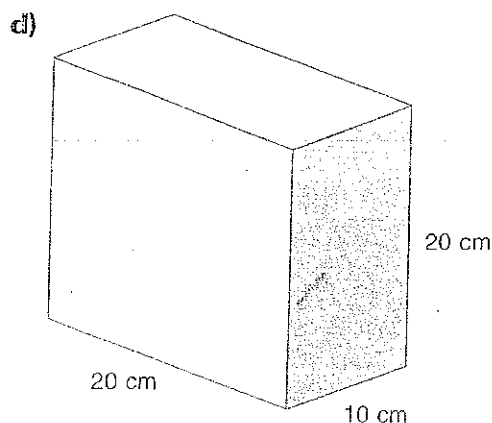
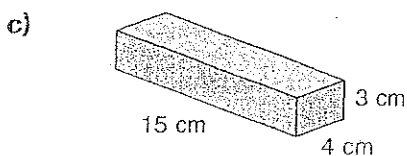
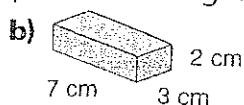
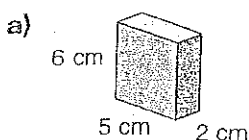
Name:

Date:

TEST (VOLUME AND SURFACE AREA OF RECTANGULAR AND TRIANGULAR PRISMS)

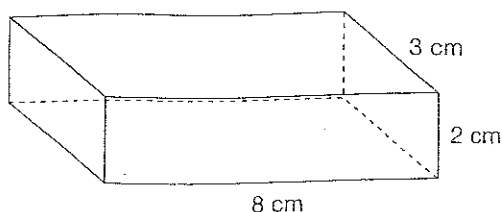
Determine the volume of each rectangular prism.

1. Détermine le volume de chaque prisme rectangulaire.




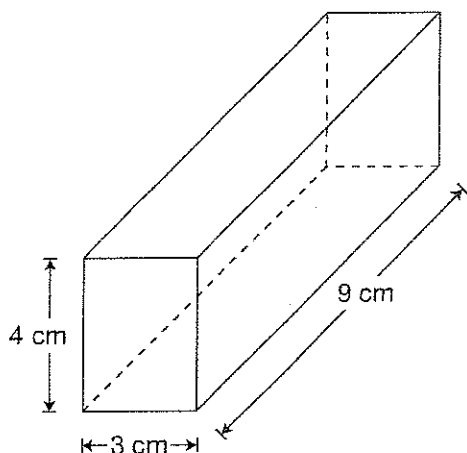
2. Draw a net of this rectangular prism.

Dessine un développement de ce prisme rectangulaire.




Calcule l'aire totale du prisme. Calculate the area of the prism.

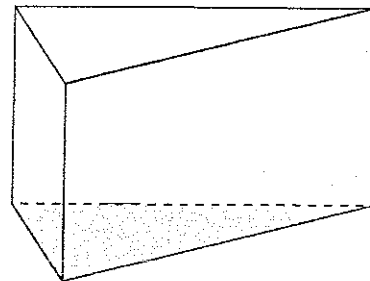
3.  Jacob paints the outside of the rectangular prism below, except for the bottom.



What is the total area that he paints?

- a 108 cm^2
- b 123 cm^2
- c 132 cm^2
- d 150 cm^2

4.  Consider the triangular prism pictured below.




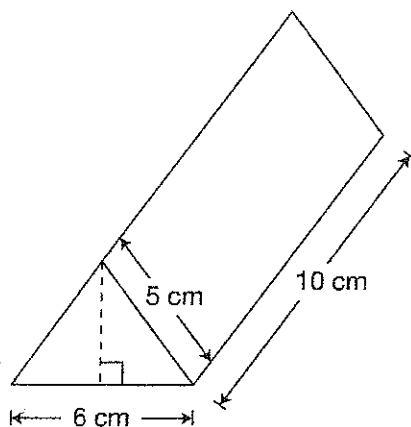
The area of the triangular base is 36 cm^2 . The volume of the triangular prism is 396 cm^3 .

What is the height of the triangular prism?

- a 6 cm
- b 9 cm
- c 11 cm
- d 12 cm

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5.  The measurements of a triangular prism are shown below in centimetres.



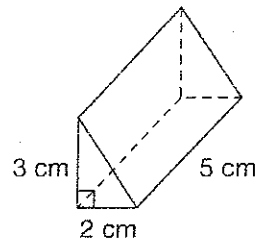
One face has an area of 12 cm^2 . Another face has an area of 60 cm^2 .

What are the areas, in cm^2 , of the remaining 3 faces?

- a 12, 12, 50
- b 12, 12, 60
- c 12, 50, 50
- d 12, 60, 60

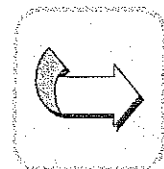
- 27 Jackie fills the triangular prism pictured below with water. Then she empties the water into a rectangular prism.

6.



Determine the number of times that Jackie must fill the triangular prism with water to fill a rectangular prism that is 10 cm long, 2 cm wide and 12 cm high.

Justify your answer.



Name: _____ Date: _____

7. a) Plot and label the following points on the coordinate plane:

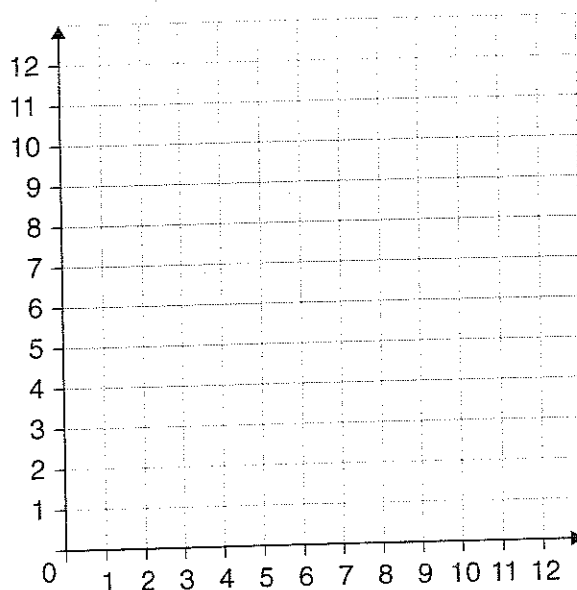
A (3, 5)

B (1, 7)

C (7, 1)

D (0, 0)

E (5, 3)



b) How do you read the coordinates of a point on the coordinate grid?

Blank area for writing the answer to question b).

6 – GSS – BENCHMARK TEST #2 (2 QUESTIONS). LEVEL:

FIRST NAME, LAST NAME:

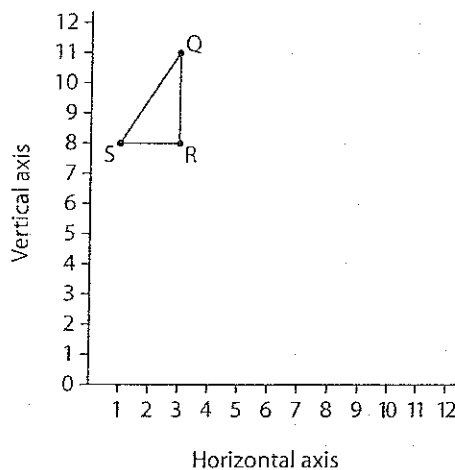
CLASS:

Answer #1 or #2 and justify.

1. a) Translate $\triangle QRS$ 3 squares right and 2 squares down.

Then reflect the translation image in a vertical line through 7 on the horizontal axis.

- b) List the coordinates of the final image.



2. a) Draw a figure whose vertices have these coordinates:

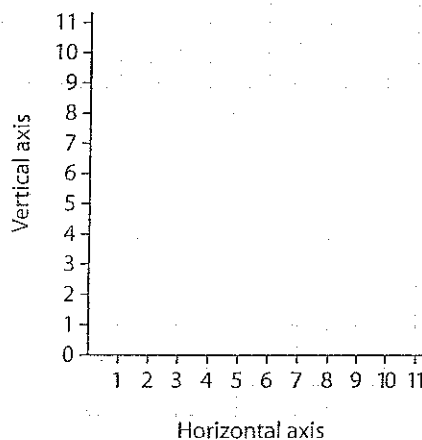
A(4, 10) B(7, 10) C(8, 8)

D(6, 6) E(3, 8)

- b) Rotate the figure 180° about D.

Draw the rotation figure and label its vertices.

- c) List the coordinates of the final image.



6 – GSS – BENCHMARK TEST #3 (2 QUESTIONS). LEVEL:

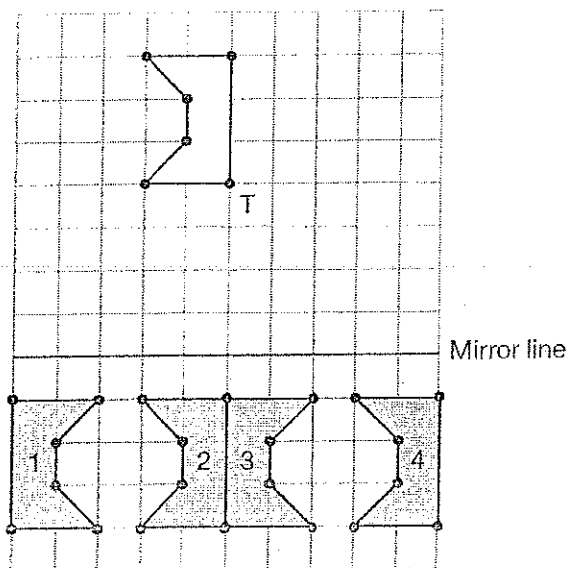
FIRST NAME, LAST NAME:

CLASS:

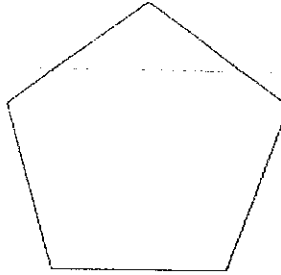
A student in your class chooses shape 4 as the correct answer. Explain to that student how to find the correct answer.

The shape on the grid below goes through the following 3 transformations in order:

- rotation of 180° about Point T
- reflection across the mirror line
- translation 5 units left



- ☒ The regular pentagon shown below has 72° rotational symmetry.



How many 72° rotations will it take to return the vertices to their original positions?

- a 1
- b 2
- c 4
- d 5^*

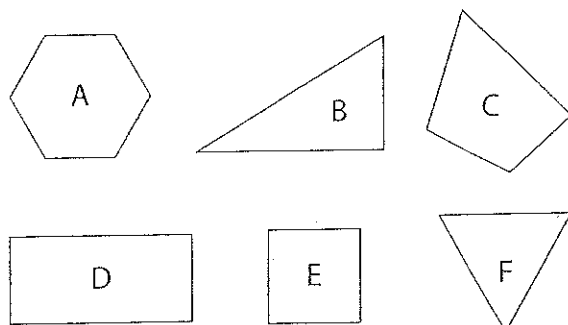
Explain your thinking below

6 – GSS – POST TEST (3 QUESTIONS). LEVEL:

FIRST NAME, LAST NAME:

CLASS:

1. Complete the table for the polygons.

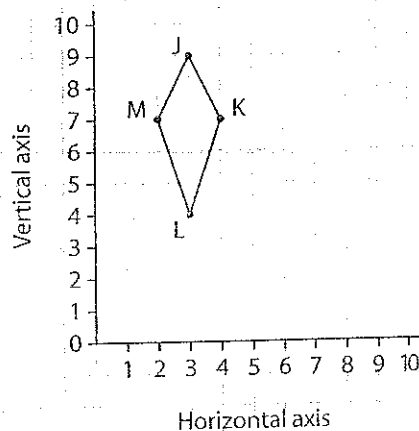


Polygon	Does It Have Rotational Symmetry?	Order of Rotational Symmetry
A		
B		
C		
D		
E		
F		

2. a) Draw the image of Figure JKLM after a $\frac{1}{4}$ turn clockwise about L. Label the vertices of the image.

b) Write the coordinates of the figure.

c) Write the coordinates of the image.



Describe 2 different transformations that would move the figure onto the image.

