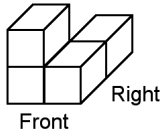


Final Exam Review - Unit 8

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- _____ 1. This object is made using 4 linking cubes. Draw the right side view of the object.



a.



b.



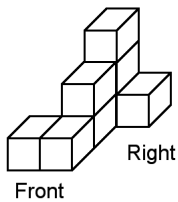
c.



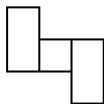
d.



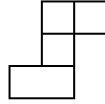
- _____ 2. This object is made using linking cubes. Draw the top view of this object.



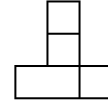
a.



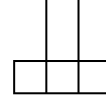
b.



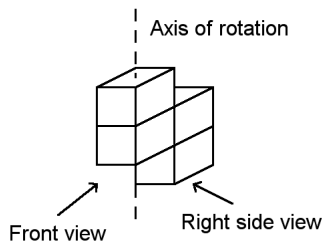
c.



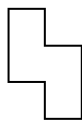
d.



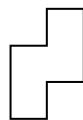
- _____ 3. This object is built using 4 linking cubes.
The object is rotated horizontally 90° clockwise about the axis shown.
Draw the front view of the object after the rotation.



a.



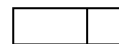
b.



c.



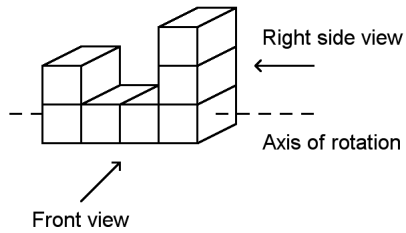
d.



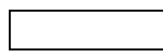
Name: _____

ID: A

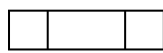
- _____ 4. This object is built using 7 linking cubes.
The object is rotated vertically 90° away from you about the axis shown.



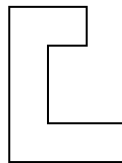
Which view is the front view of the object after the rotation?



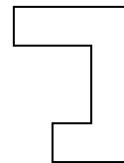
View K



View L



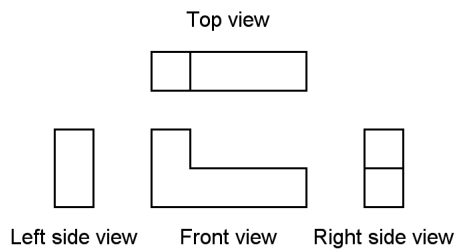
View M



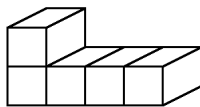
View N

- a. View K b. View L c. View M d. View N

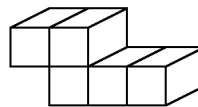
- _____ 5. These are views of an object built using linking cubes. Sketch the object.



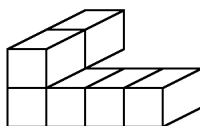
a.



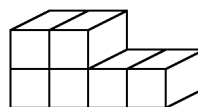
c.



b.

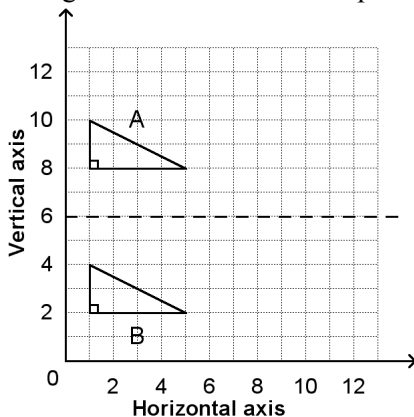


d.

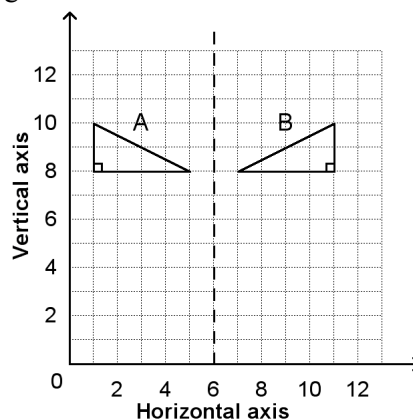


6. Triangle B is the image of Triangle A after a reflection in a vertical line through the point (6, 0). Which diagram shows the correct position of Triangle B?

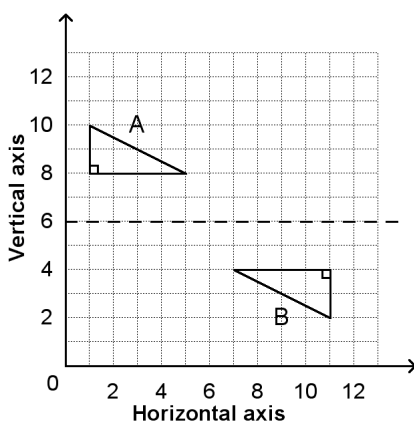
a.



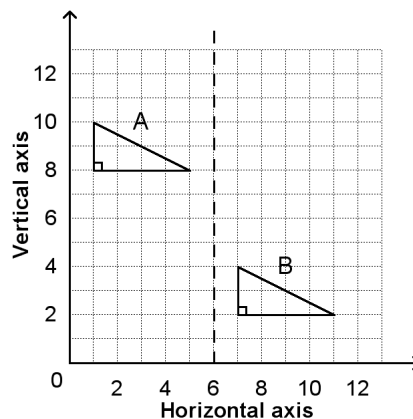
c.



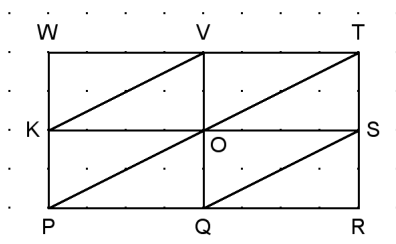
b.



d.

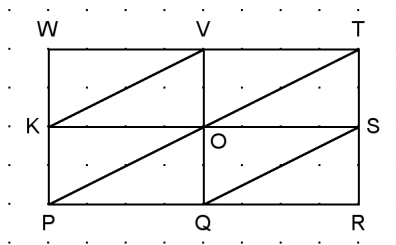


7. Triangle OQS is a transformation image of Triangle WKV. Describe the transformation.



- Translation 4 units right and 2 units down
- Translation 2 units right and 4 units down
- 180° rotation about O
- 90° clockwise rotation about O

_____ 8. Name the image of Triangle VOT after a rotation of 180° about O.

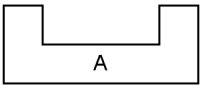
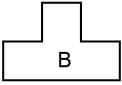
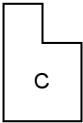


- a. Triangle WKV
b. Triangle SOT
c. Triangle RSQ
d. Triangle QOP

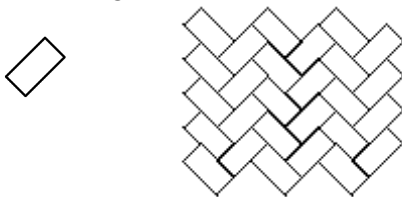
_____ 9. Which shape tessellates?

- a.  b.  c.  d. 

_____ 10. Which shape does not tessellate?

-    
- a. Shape A
b. Shape B
c. Shape C
d. Shape D

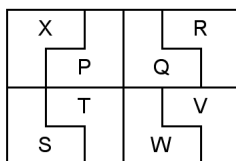
_____ 11. This rectangle below is used to create the design on its right.



Identify the transformations used.

- a. Translations only
b. Reflections only
c. Rotations only
d. Translations and rotations

_____ 12. What shapes in this diagram can be obtained by a reflection of Shape X?



- a. R and S
b. P and W
c. R, S, and W
d. R, V, and T

Final Exam Review - Unit 8**Answer Section****MULTIPLE CHOICE**

1. ANS: C PTS: 1 DIF: Easy REF: 8.1 Sketching Views of Objects
LOC: 8.SS5 TOP: Shape and Space (3-D Objects and 2-D Shapes)
KEY: Conceptual Understanding
2. ANS: B PTS: 1 DIF: Moderate REF: 8.1 Sketching Views of Objects
LOC: 8.SS5 TOP: Shape and Space (3-D Objects and 2-D Shapes)
KEY: Conceptual Understanding
3. ANS: A PTS: 1 DIF: Moderate
REF: 8.2 Drawing Views of Rotated Objects LOC: 8.SS5
TOP: Shape and Space (3-D Objects and 2-D Shapes)
KEY: Conceptual Understanding | Communication
4. ANS: A PTS: 1 DIF: Moderate
REF: 8.2 Drawing Views of Rotated Objects LOC: 8.SS5
TOP: Shape and Space (3-D Objects and 2-D Shapes)
KEY: Conceptual Understanding | Communication
5. ANS: A PTS: 1 DIF: Moderate
REF: 8.3 Building Objects from Their Views LOC: 8.SS5
TOP: Shape and Space (3-D Objects and 2-D Shapes)
KEY: Conceptual Understanding | Communication
6. ANS: C PTS: 1 DIF: Moderate REF: 8.4 Identifying Transformations
LOC: 8.SS6 TOP: Shape and Space (Transformations)
KEY: Conceptual Understanding | Communication
7. ANS: A PTS: 1 DIF: Moderate REF: 8.4 Identifying Transformations
LOC: 8.SS6 TOP: Shape and Space (Transformations)
KEY: Conceptual Understanding | Communication
8. ANS: D PTS: 1 DIF: Moderate REF: 8.4 Identifying Transformations
LOC: 8.SS6 TOP: Shape and Space (Transformations)
KEY: Conceptual Understanding
9. ANS: B PTS: 1 DIF: Easy REF: 8.5 Constructing Tessellations
LOC: 8.SS6 TOP: Shape and Space (Transformations)
KEY: Conceptual Understanding
10. ANS: A PTS: 1 DIF: Moderate REF: 8.5 Constructing Tessellations
LOC: 8.SS6 TOP: Shape and Space (Transformations)
KEY: Conceptual Understanding | Problem-solving Skills
11. ANS: D PTS: 1 DIF: Moderate
REF: 8.6 Identifying Transformations in Tessellations LOC: 8.SS6
TOP: Shape and Space (Transformations) KEY: Conceptual Understanding
12. ANS: A PTS: 1 DIF: Difficult
REF: 8.6 Identifying Transformations in Tessellations LOC: 8.SS6
TOP: Shape and Space (Transformations)
KEY: Conceptual Understanding | Problem-solving Skills