Mathematician: \_\_\_\_\_

LEVEL: EMERGING

Period:

Directions: Identify the type of transformation: *translation, reflection, or rotation*. Then, *explain* your reasoning.



4) Which of the following transformations of the original image represent an example of rigid motion?



Directions: Answer the following questions. Select <u>ALL</u> that apply!



Directions: Identify the type(s) of rigid motion that relates the two given objects.



LEVEL: MASTERY

13) In your own words, describe what a "rigid	14) What does "congruent" mean when describing
motion" is.	shapes?
15) Give three examples of <b>rotation</b> in real life.	16) Give three examples of <u>translation</u> in real life.

Directions: List three shapes that are non-examples of rigid motion given shapes in each question.

		19)
Non-Example #1:	Non-Example #1:	Non-Example #1:
Non-Example #2:	Non-Example #2:	Non-Example #2:
Non-Example #3:	Non-Example #3:	Non-Example #3:

20) Given the following diagram, find  $m \angle B$ .





*m*∠B =\_\_\_\_\_

## **Unit 2.1 Worksheet Answers**

- 1. Reflection, Answers may vary
- 2. Rotation, Answers may vary
- 3. Translation, Answers may vary
- 4. A, D, E
- 5.
- a. ∠*Q*
- b. ∠*K*
- c.  $\overline{SR}$
- d. *KN*
- e. ∠*Q*
- f.  $\overline{QR}$
- 6. B and E
- 7. C and D
- 8. A, B, and C
- 9. A and C
- 10. Translation or Reflection over the x-axis
- 11. Rotation, Reflection over the x-axis
- 12. Translation or Reflection over the y-axis
- 13. Answers may vary
- 14. Answers may vary
- 15. Answers may vary
- 16. Answers may vary
- 17. Answers may vary
- 18. Answers may vary
- 19. Answers may vary
- 20. 100°