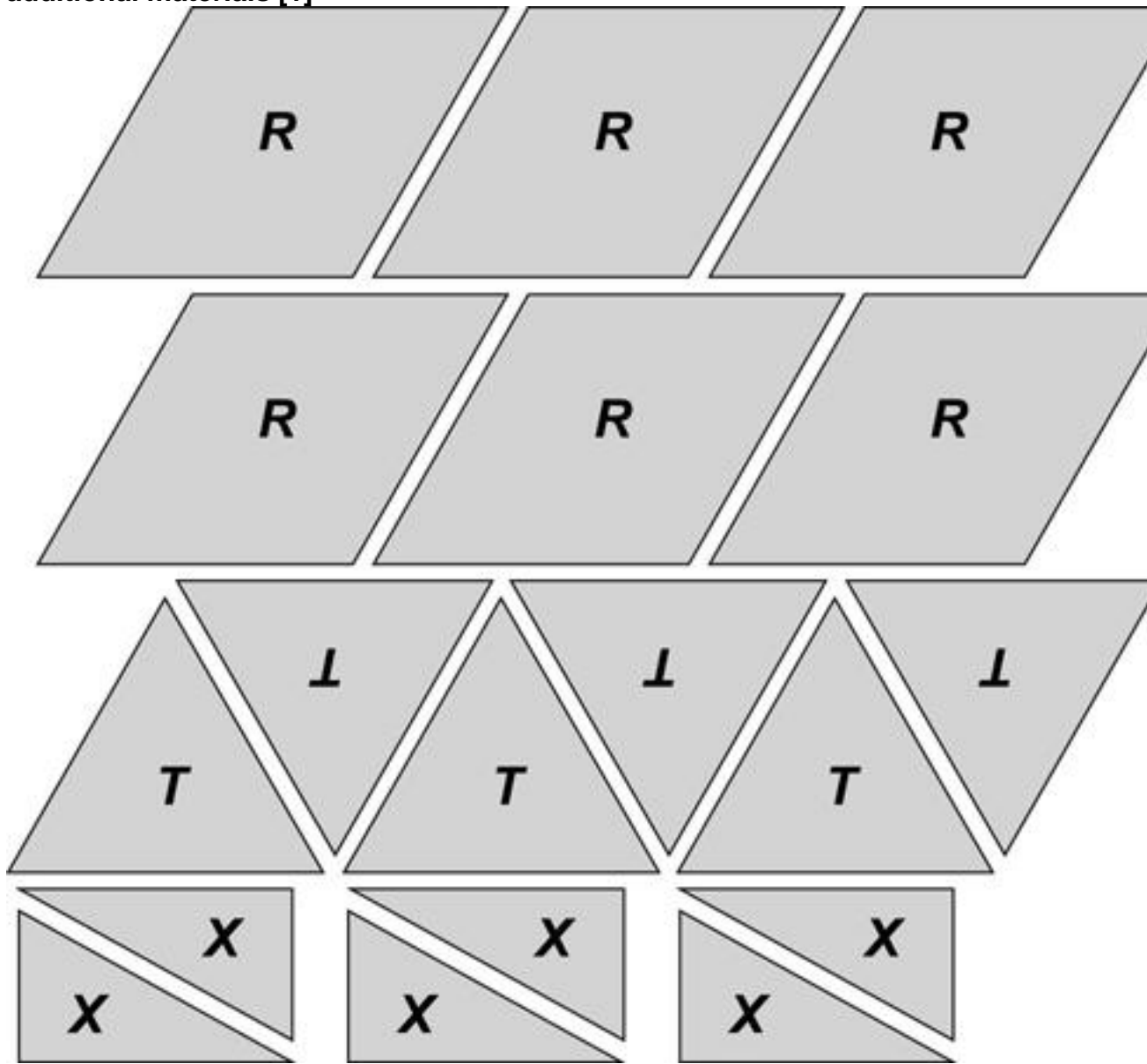


additional materials [1]



Question 1 refers to additional materials [1]

You will need two pieces labeled X to answer this question.

1. Use the pieces to make a shape that has these properties.

In the space below, trace the shape.

Draw the line to show where the two pieces meet.

Scoring Guide

Sample Correct Responses:

[Image not Found
(E:\inetpub\wwwroot\naep3\itmlrsx\images\app_images\YJ000082%20sg.jpg)]

Score & Description

Correct

Correct response

Partial

A four-sided figure with parallel sides with meeting lines drawn.

OR

A correct shape but meeting line is incorrect.

OR

A 3-sided figure or a figure with more than four sides, and the sides are not parallel with meeting lines drawn.

OR

Either of the correct shapes is drawn without the line where the pieces meet.

Incorrect

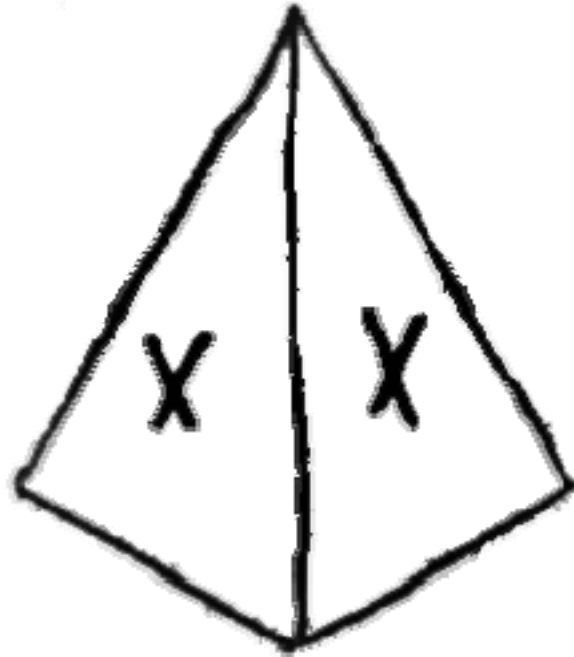
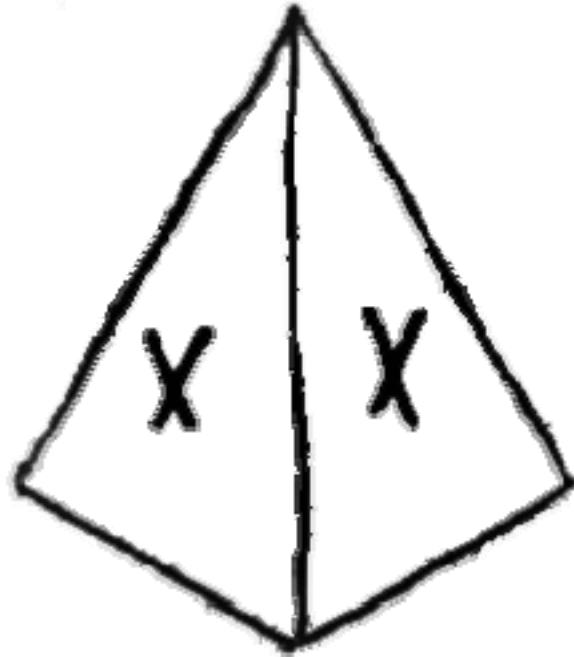
Incorrect response

Correct - Student Response

Use the pieces to make a shape that has these properties.

In the space below, trace the shape.

Draw the line to show where the two pieces meet.

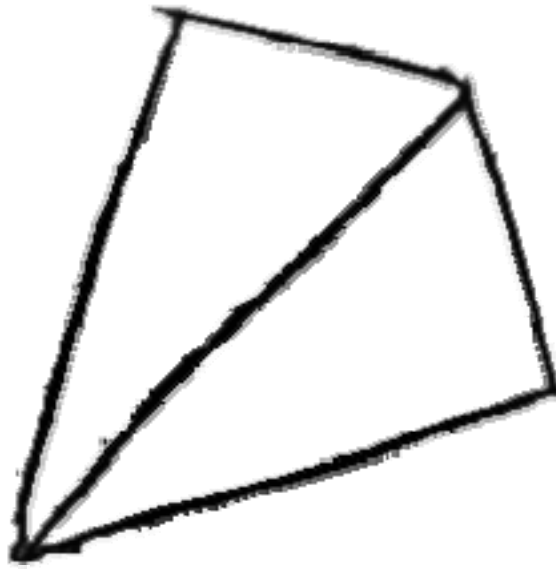


Scorer Comments:

Use the pieces to make a shape that has these properties.

In the space below, trace the shape.

Draw the line to show where the two pieces meet.



Scorer Comments:

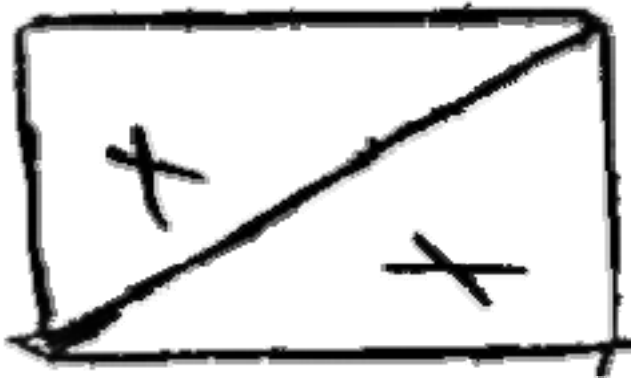
These responses correctly showed a four-sided figure with no pieces that overlapped and no sides that were parallel.

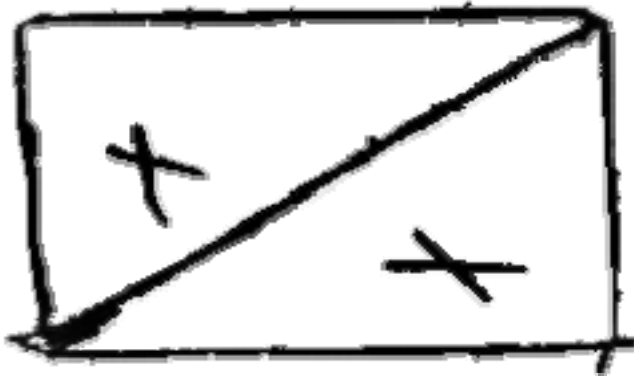
Partial - Student Response

Use the pieces to make a shape that has these properties.

In the space below, trace the shape.

Draw the line to show where the two pieces meet.



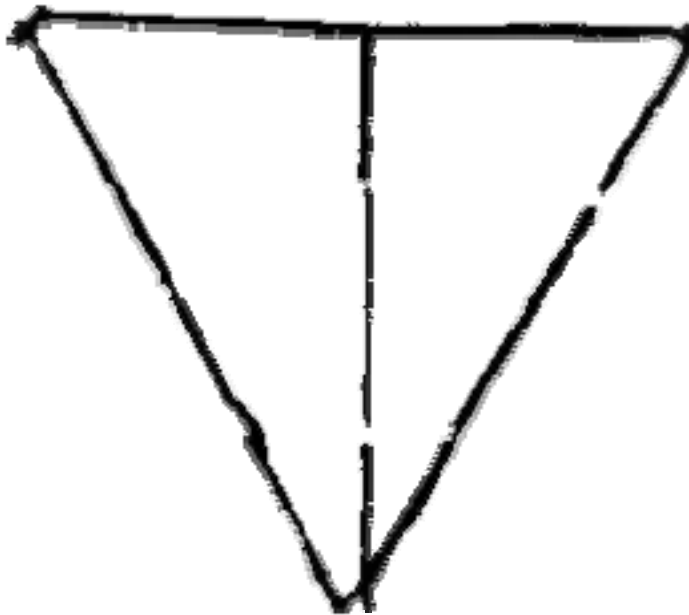


Scorer Comments:

Use the pieces to make a shape that has these properties.

In the space below, trace the shape.

Draw the line to show where the two pieces meet.



Scorer Comments:

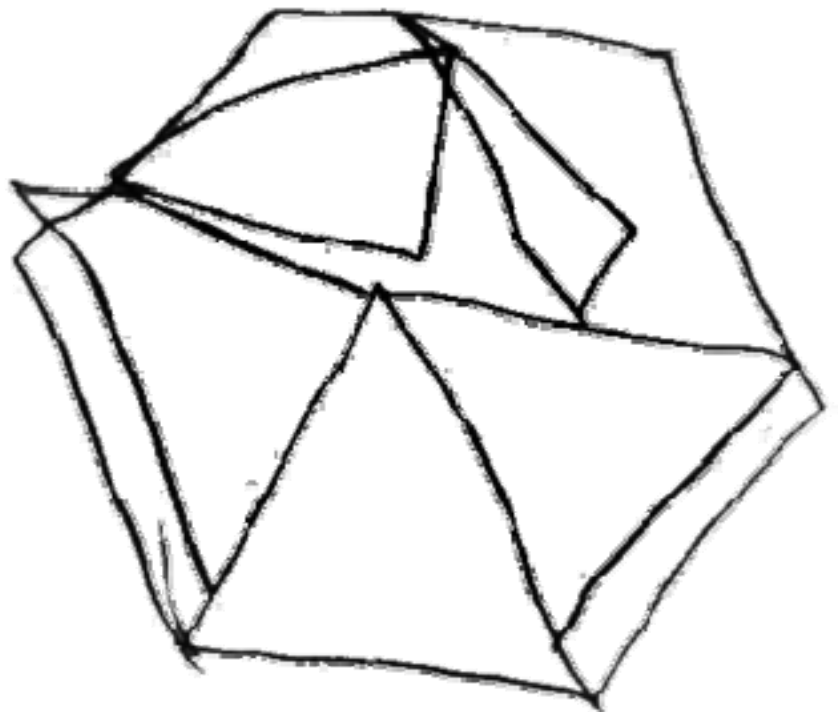
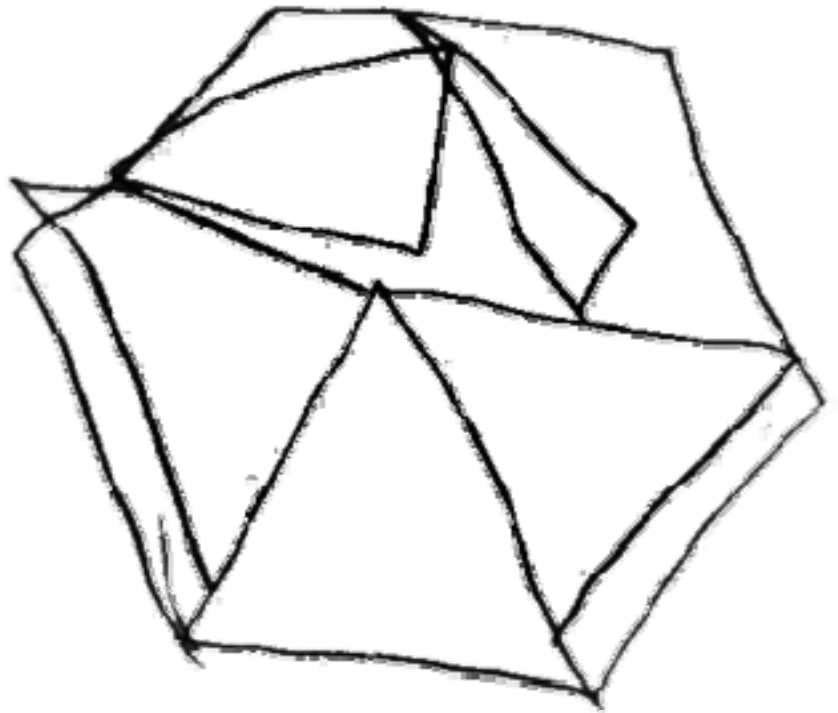
These responses showed partially correct figures where each had a line drawn where the two pieces met.

Incorrect - Student Response

Use the pieces to make a shape that has these properties.

In the space below, trace the shape.

Draw the line to show where the two pieces meet.

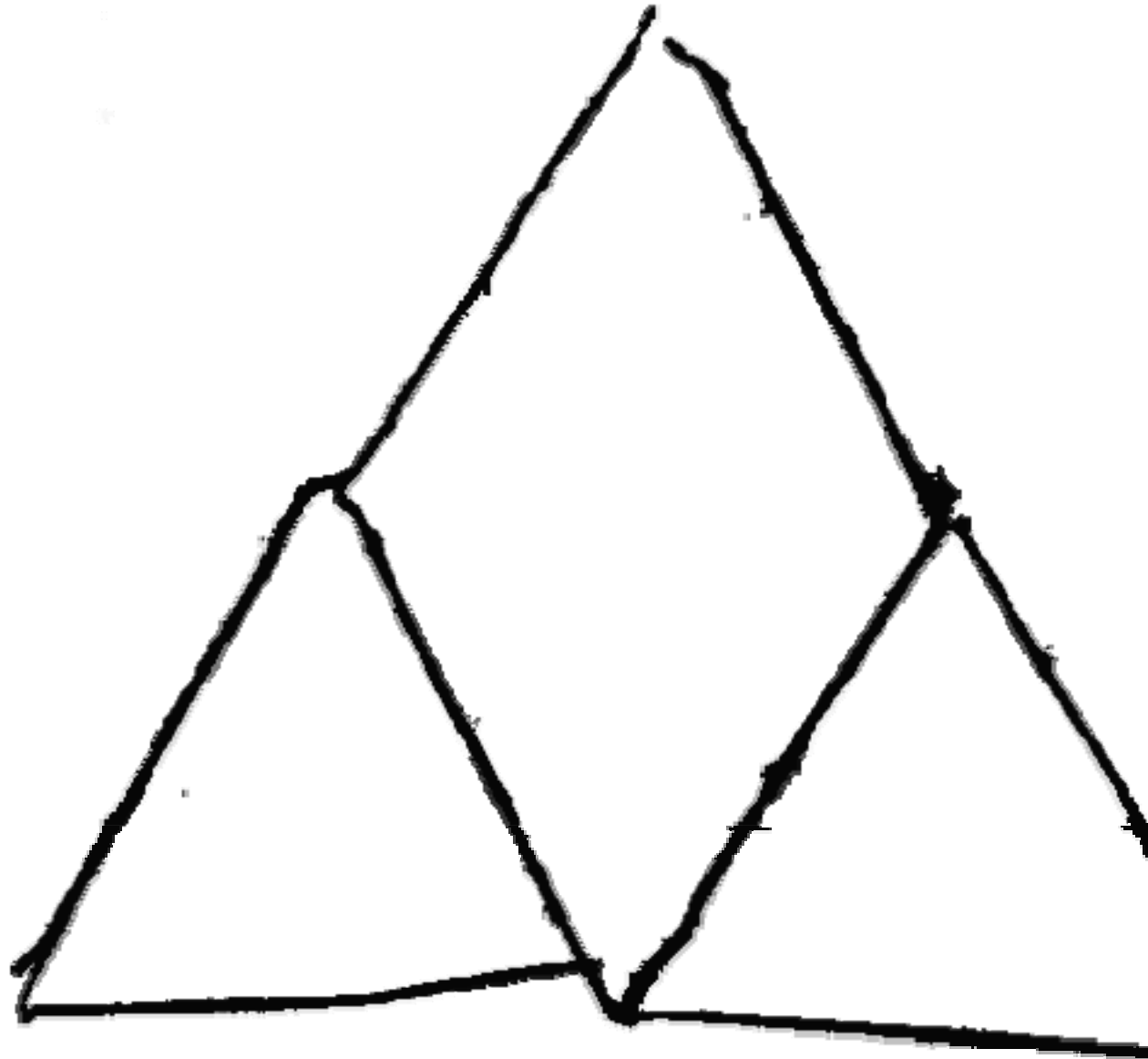


Scorer Comments:

Use the pieces to make a shape that has these properties.

In the space below, trace the shape.

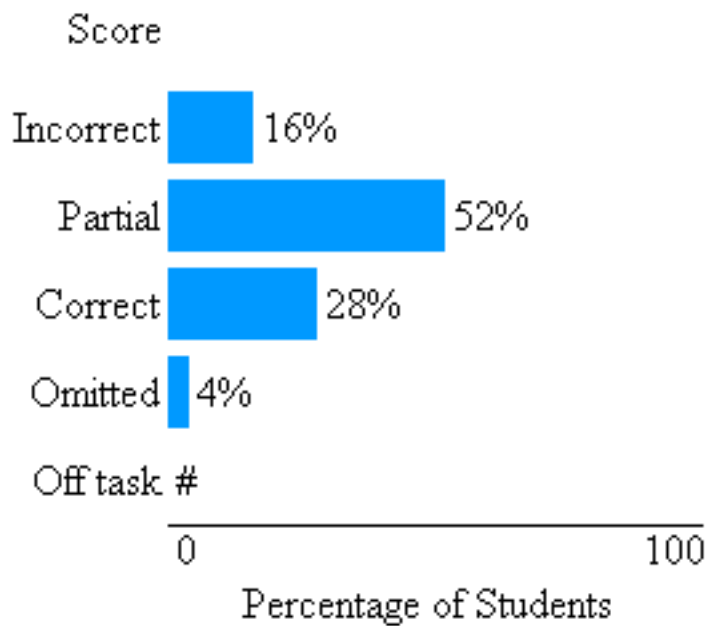
Draw the line to show where the two pieces meet.



Scorer Comments:

These responses were incorrect. Piece X was not used to make the shapes.

NAEP national performance results in Mathematics at grade 8: 2009
Use given pieces to make shape with certain properties



Rounds to zero.

NOTE: These results are for public and nonpublic school students. Percentages may not add to 100 due to rounding.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 Mathematics Assessment.

