

# 8

## Dissecting and Forming Shapes



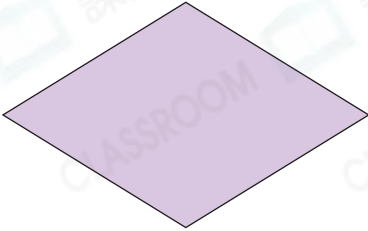
Date: \_\_\_\_\_

Mark: \_\_\_\_\_

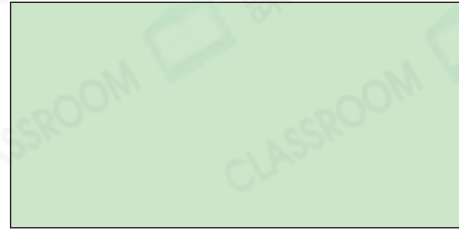


Add dotted line(s) on the figures to dissect them into required shapes.

1. 4 right-angled triangles



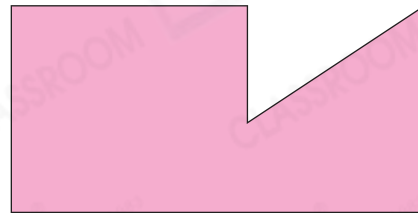
2. 8 squares



3. 2 trapeziums

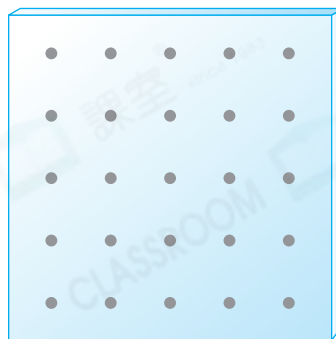
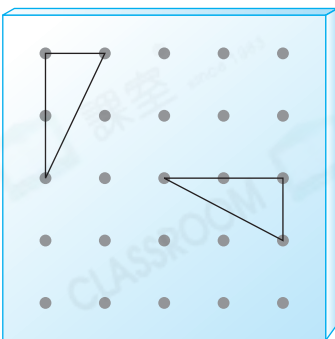


4. 3 triangles

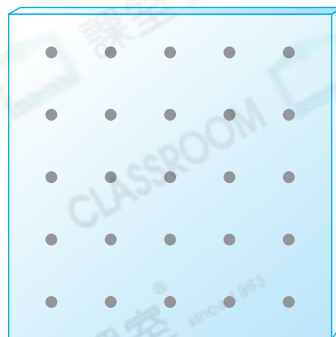
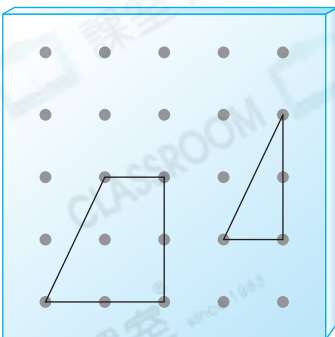


Combine the shapes on the left to form a quadrilateral and draw it on the pin-boards on the right.

5.

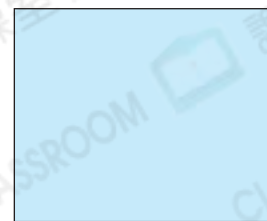


6.

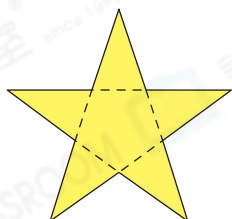


7. The rectangle is dissected into two identical figures. Which of the following shapes **cannot** be obtained?

- A. Triangles                      ○ B. Trapeziums  
○ C. Squares                        ○ D. Rectangles



8.



The above figure can be dissected into **five** \_\_\_\_\_ and one \_\_\_\_\_.

**STEM** Education **pedia**

Do you know? When you tear out all corners of any quadrilaterals, they can always fit tightly together without any space left.

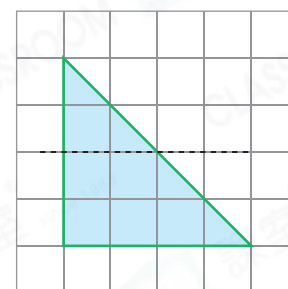
E.g. Tear out all the corners

9. (a) The figure on the right is dissected along the dotted line. Which two kinds of 2-D shapes can be obtained?

Answer: A \_\_\_\_\_ and a \_\_\_\_\_

(b) Which quadrilateral can be formed by combining the shapes obtained?

Answer: \_\_\_\_\_

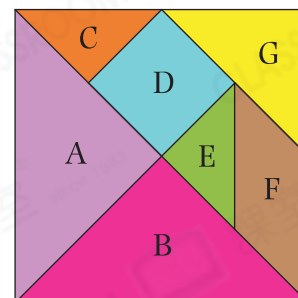


10. The figure on the right is a tangram.

(a) Shapes F and G can form a \_\_\_\_\_.

(b) Shapes \_\_\_\_\_, \_\_\_\_\_ and F can form a rectangle.

(c) Shapes \_\_\_\_\_, \_\_\_\_\_ and D can form a trapezium **without** right angles.



**Brain Quest**



Detailed tips

Which kinds of quadrilaterals can be dissected into the four shapes on the right?

Answer: A \_\_\_\_\_, a \_\_\_\_\_,  
a \_\_\_\_\_

