

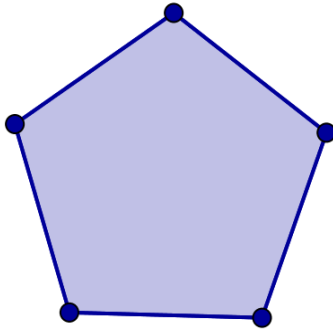
Symmetries in Geometry and Music

What is the correct answer?

Full name – write the first syllables, e.g.
Petros Stergiopoulos → PeSte

1. How many axes of symmetry does a regular pentagon have?

- a. 3 b. 5 c. 4 d. 1



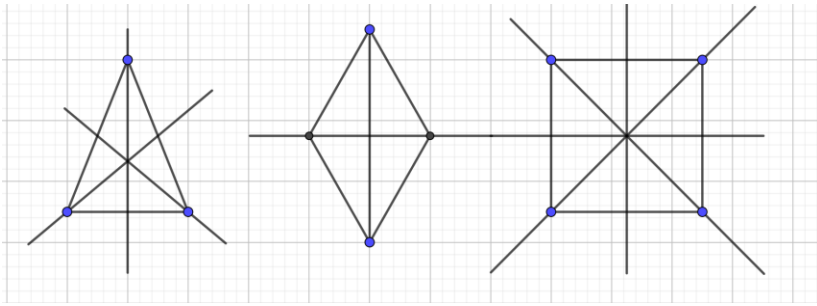
2. How many axes of symmetry does the flag of Great Britain (rectangular shape) have?

- a. 2 b. 4 c. 1 d. 8

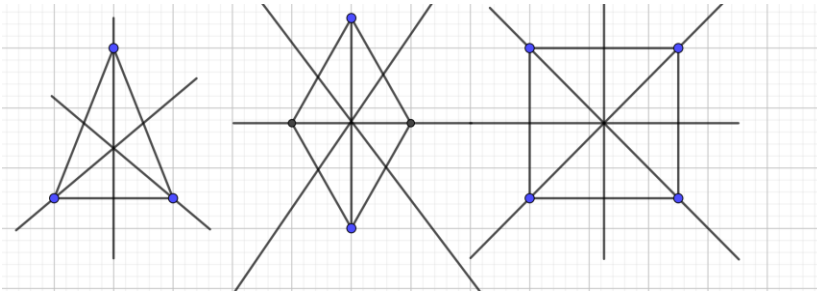


3. We drew all the axes of symmetry in an isosceles triangle, a rhombus, and a square.
Which of the following answers is correct?

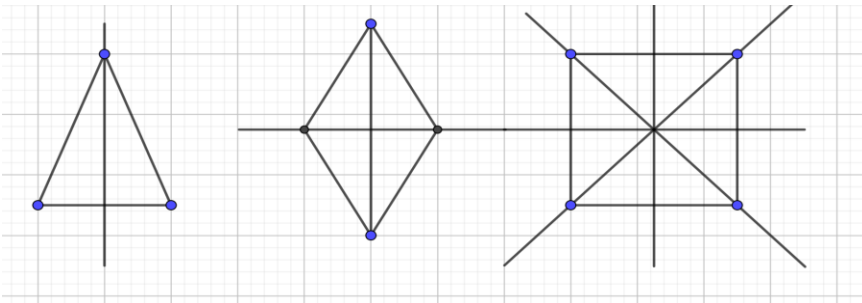
a.



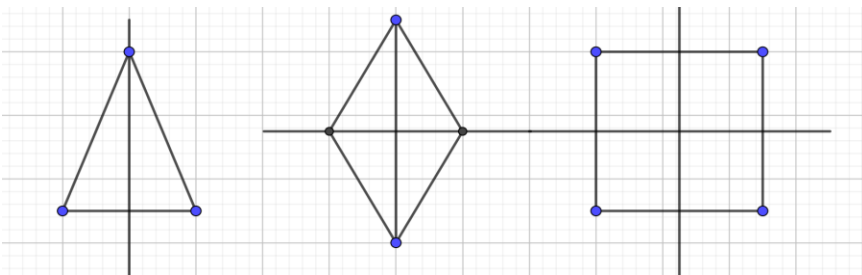
b.



c.

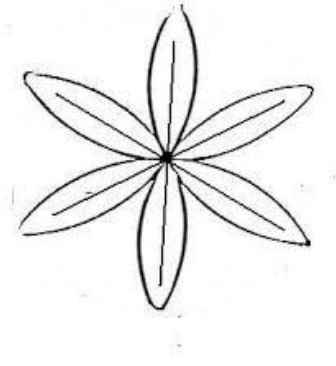


d.



4. How many axes of symmetry can we find in the following figure?

- a. 6 b. 12 c. 8 d. 3



5. Given that the sequence of notes is:
C D E F G A B

A symmetrical reflection of the musical pattern C E D F E could be:

- a. C D E F E
- b. F D E C D
- c. F E D C D
- d. E F D E C

6. The note that acts as the “axis of symmetry” for the musical pattern
C E F B C B F E C
is:

- a. F
- b. B
- c. C
- d. E

7. How do you understand the concept of “mirror inversion” for the sequence of notes C E D?

- a. D E C
- b. D C E
- c. C D E
- d. C E D

8. In a musical pattern, a “peak” note B sounds high (sharp). If we rotate the pattern by 180 degrees, the corresponding note B’—that is, the mirror image of B—will sound:

- a. Lower (flat)
- b. The same (equally high)
- c. Higher (sharper)
- d. Silent