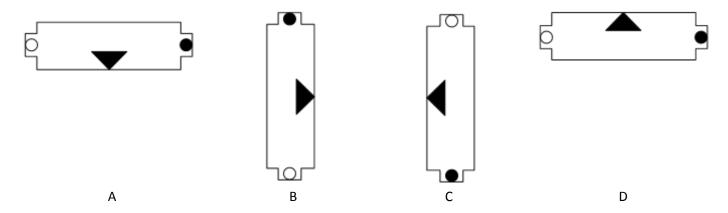
The shape below is shown after it has been rotated a quarter turn clockwise.

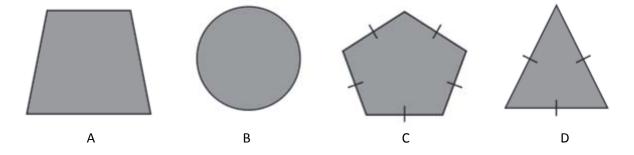


What did the shape look like before it was rotated?



Question 2

Which of these shapes has the fewest lines of symmetry?

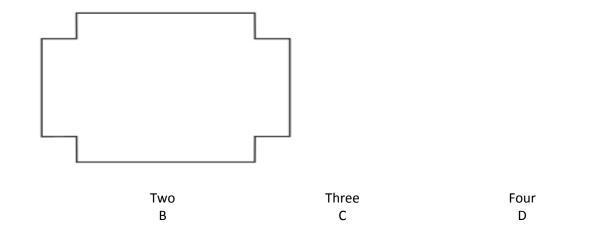


Question 3

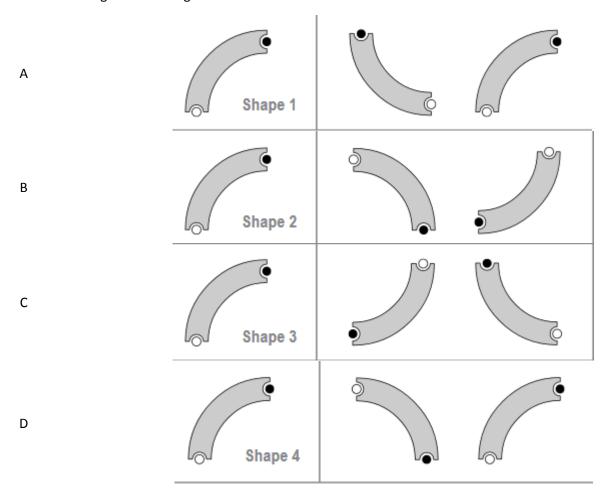
One

Α

How many lines of symmetry does this shape have?

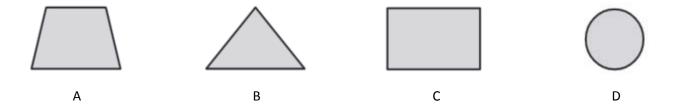


Which shape has been rotated 90 degrees to the right twice?



Question 5

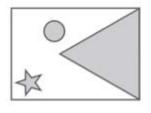
Which one of these has exactly two lines of symmetry?



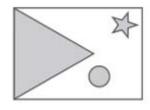
This tile has been turned 180 degrees



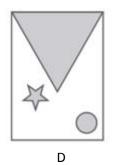
Which tile shows what it looked like before it was turned?







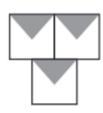
С



Α

Question 7

Which shape and its pattern has no lines of symmetry?









Α

В

С

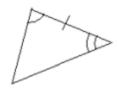
D

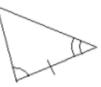
In each pair of triangles, parts are congruent as marked. Which pair of triangles is congruent by ASA?

Α

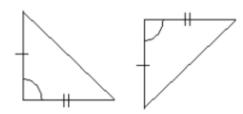


С

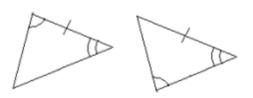




В

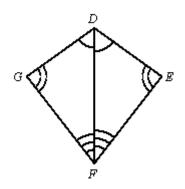


D



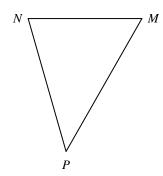
Question 9

From the information in the diagram, can you prove $\Delta FDG \cong \Delta FDB$? Explain.



- A yes, by AAA
- B yes, by SAS
- C yes, by SSA
- D no

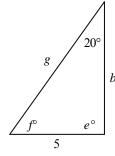
Name the angle formed by the sides \overline{MP} and \overline{PN} .

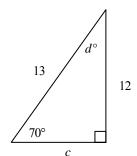


- A $\angle M$
- B $\angle N$
- C $\angle P$
- D none of these

Question 11

The two triangles are congruent as suggested by their appearance. Find the value of b. The diagrams are not to scale.





A 70

В

5

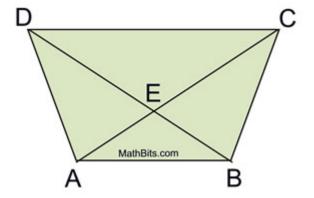
13

D 12

ABCD is a trapezoid where $\Delta DAB \cong \Delta CBA$. Which of the following statements is true based on the given information?

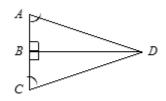
A
$$\overline{BD} \cong \overline{CD}$$

B $\overline{DA} \cong \overline{DC}$
C $\angle BCE \cong \angle DAB$
D $\angle ACB \cong \angle BDA$



Question 13

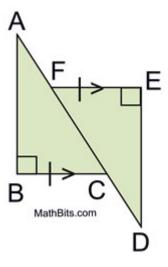
Name the rule that lets you know that $\triangle ABD \cong \triangle CBD$.



- A ASA
- B AAS
- C SAS
- D none of these

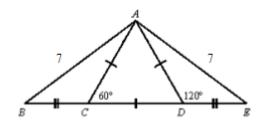
Given the triangles ABC and DEF as shown at the right. In addition to the markings, AF = CD. Which of the following methods can NOT be used to prove the triangles congruent?

- A SAS
- B AAS
- C SSS
- D RHS



Question 15

State whether $\triangle ABC$ and $\triangle AED$ are congruent. Justify your answer.



- A yes, by either SSS or SAS
- B yes, by SAS only
- C yes, by SSS only
- D No; there is not enough information to conclude that the triangles are congruent.