

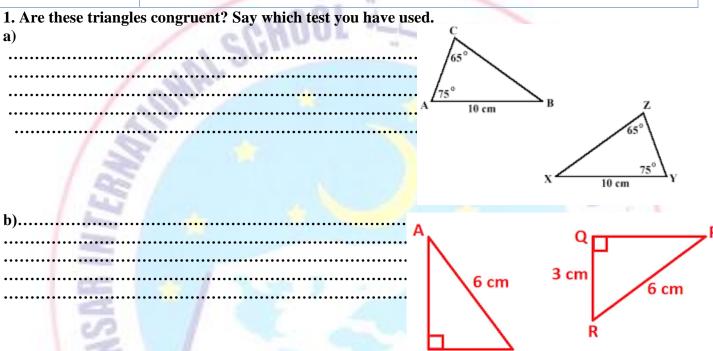


#### **DEPARTMENT OF MATHEMATICS**

# **G**RADES **4** TO **12**

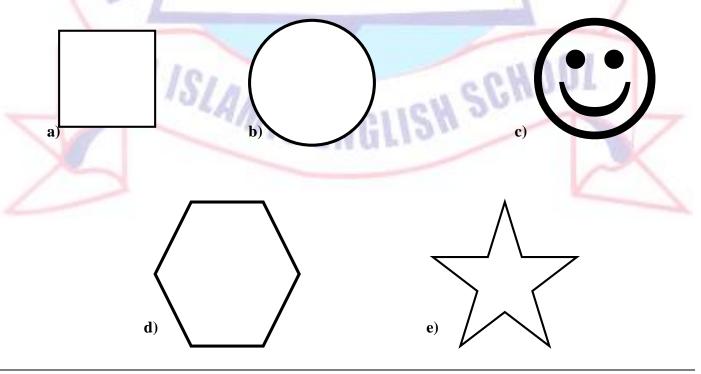
TERM-1, ACADEMIC YEAR 2017 - 18

Worksheet No.	3	Topic	Shapes & Mathematical Drawings		
Grade	7	Section	A - J	Date	24/11/2017
Student Name					



3 cm

2.) How many lines of symmetry does each figure have? Draw the symmetry lines.





### 3. Using ruler and compass only, construct the following triangle ABC & XYZ with:

a) AB = 7 cm; BC = 8 cm; AC = 12 cm.

b) XY = 8 cm; Hypotenuse XZ = 10 cm; angle  $XYZ = 90^{\circ}$ 





## **Answers**:

**1.** a) In  $\triangle$  ABC and  $\triangle$  XYZ,

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angles 
$$\rightarrow$$
 C = Z  
angles  $\rightarrow$  A = Y  
side  $\rightarrow$  AB = XZ

Therefore, by AAS Congruency the triangles are congruent.

b) In  $\triangle$  ABC and  $\triangle$  PQR,

90° angle 
$$\rightarrow$$
 B = Q  
hypotenuse  $\rightarrow$  AC = RP  
side  $\rightarrow$  BC = QR

Therefore, by **RHS** Congruency the triangles are congruent

### 2. The number of lines of symmetry are:

- a) four
- b) infinite
- c) one
- d) six
- e) five
- 3.) a) Refer to text book Pg 37, 38 and follow the steps given in Example 1
- b) Refer to text book Pg 38, 39 and follow the steps given in Example 2

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