

Worksheet: Exploring Some Geometric Themes

NIOS · Class 8 · Mathematics · 5 questions · 13 marks

Name: _____

Date: _____

Score: _____ / 13

Q1. Which criterion applies when two triangles have all three sides equal? *[1 mark]*

Q2. Find circumference of a circle with radius 14 cm ($\pi = 22/7$). *[1 mark]*

Q3. Two triangles are similar with sides in ratio 3:5. Find the ratio of their (a) perimeters, (b) areas. *[3 marks]*

Q4. A wheel has diameter 70 cm. How many revolutions to cover 11 km? *[3 marks]*

Q5. A 6 m tall man casts a shadow of 3 m. At the same time, a building casts a shadow of 45 m. Using similar triangles, find the height of the building. *[5 marks]*
