

# MATHEMATICS PRELIMINARY EXTENSION 1

## CIRCLE GEOMETRY PUZZLE

### COURSE/LEVEL

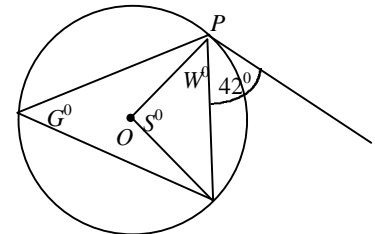
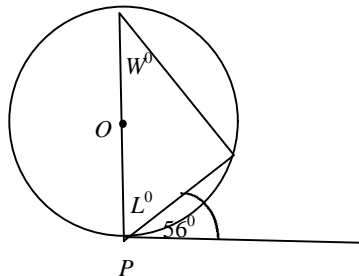
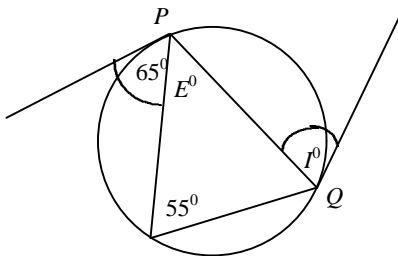
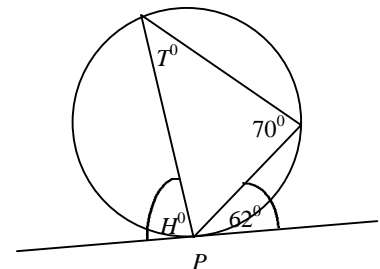
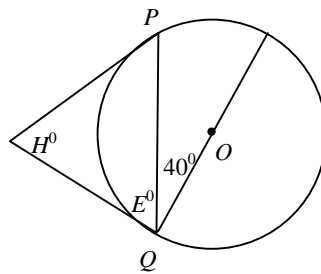
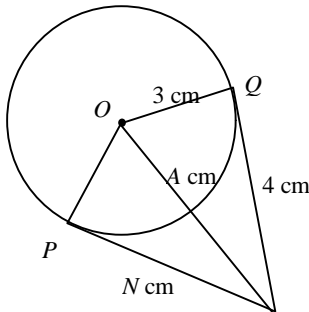
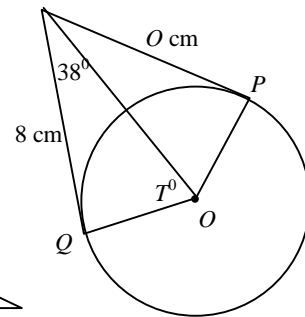
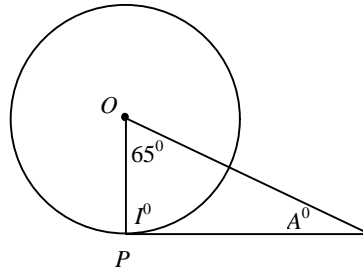
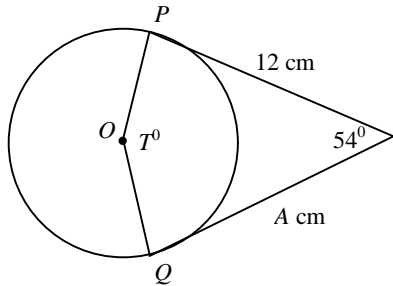
NSW Secondary High School Year 11 Preliminary Extension Mathematics.

### TOPIC

Circle Geometry: Applications of Circle Geometry Results (Syllabus Reference: 2.10)

### Where are whales weighed?

**Step 1** Find the size of each angle represented by pronumerals. ( $O$  is the centre of each circle.  $P$  and  $Q$  are points of contact of tangents.)



**Step 2** Write the letter corresponding to each answer in the spaces below.

12	52	25	56	70	12	34	50	

48	60	90	42	80	84	62	5	126	55	8	4		