2.12-4 Geometry and Shape: Practice Set 4: 10-minute Pack

Total Marks

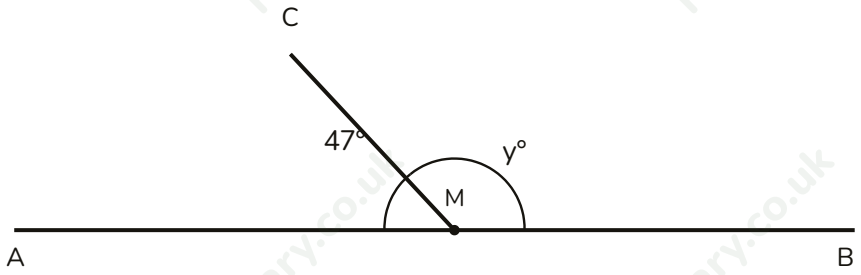
GL ASSESSMENT GL · Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A straight line AB passes through point M. A ray MC is drawn from M, splitting angle AMB into two angles: angle AMC = 47 degrees and angle CMB = y degrees. Calculate the value of y.

Diagram NOT accurately drawn



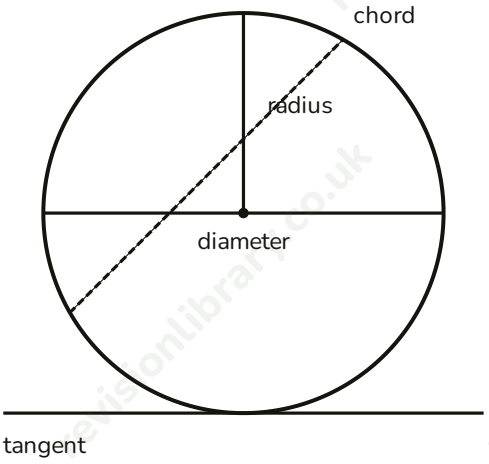
(not to scale)

(2)

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2 For each description below, write down the correct circle term (radius, diameter, chord, tangent or circumference).

Diagram NOT accurately drawn



(not to scale)

(a) A straight line from the centre of a circle to any point on its edge. **(1)**

(b) A straight line that touches a circle at exactly one point without crossing into it. **(1)**

(c) A straight line segment joining any two points on the circumference, not necessarily through the centre. **(1)**

(d) The distance all the way around the outside of a circle. **(1)**

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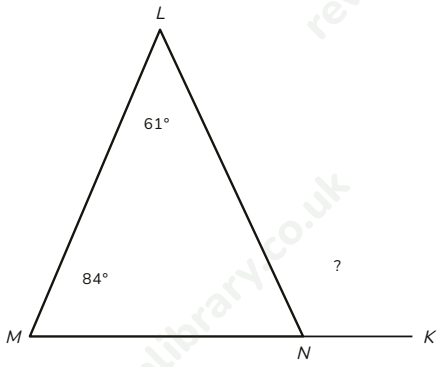
3 Which of these shapes is NOT a type of quadrilateral?

- ☐ A) Rhombus
- ☐ B) Kite
- ☐ C) Pentagon
- ☐ D) Trapezium

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4 In triangle LMN, angle L = 61 degrees and angle M = 84 degrees. Side MN is extended beyond N to a point K, so that angle LNK is the exterior angle of the triangle at N. Calculate the size of angle LNK.

Diagram NOT accurately drawn



(not to scale)

(2)

5 Triangle P has sides 4 cm, 6 cm and 9 cm. Triangle Q has sides 6 cm, 9 cm and 4 cm. Triangle R has sides 4 cm, 6 cm and 8 cm. State which two of the triangles are congruent to each other, and give a reason.

(2)

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Mark scheme · 2.12-4 Geometry and Shape: Practice Set 4: 10-minute Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

180 - 47 seen (angles on a straight line sum to 180 degrees)	**M1**
133 degrees cao	**A1**

Answer: y = 133 degrees

Question 2

(a) radius cao	**B1**

(a) Answer: radius

(b) tangent cao	**B1**

(b) Answer: tangent

(c) chord cao	**B1**

(c) Answer: chord

(d) circumference cao	**B1**

(d) Answer: circumference

Question 3

C cao	**B1**

Answer: C) Pentagon

Question 4

180 - 61 - 84 seen (angle N), or 61 + 84 seen (exterior angle = sum of the two opposite interior angles)	**M1**
145 degrees cao	**A1**

Answer: angle LNK = 145 degrees

Question 5

P and Q cao	**B1**
reason: P and Q have exactly the same three side lengths (SSS), so they are congruent	**B1**

Answer: P and Q are congruent

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