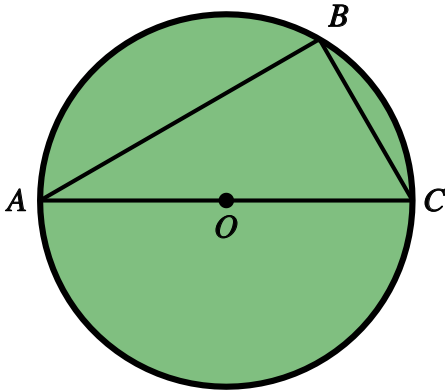# Circle Theorems - no reasons needed

Name: Class: Date:

Mark	/ 10	%

1) In the diagram below, angle BAC = 31°.
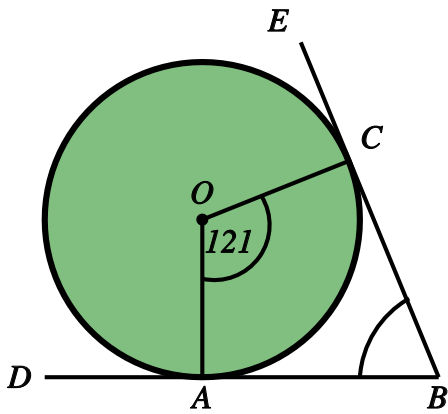

Find the following angles
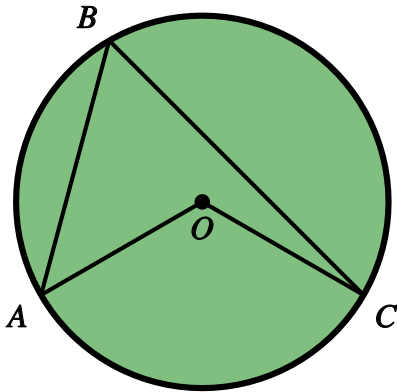
   a) angle ABC

   b) angle ACB

[1]

2) Find angle ABC in the following diagram [1]
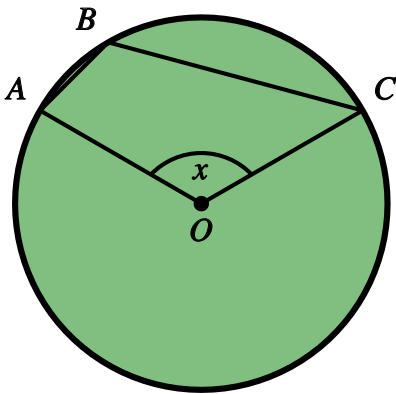

3) In the diagram below, angle AOC = 125°. [1]

Find angle ABC

4) In the diagram below, angle ABC = 105°. [1]
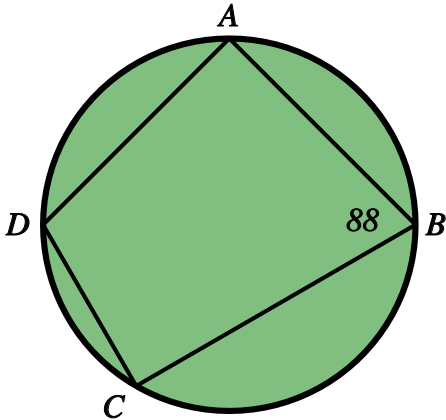

Find angle AOC (marked with an x).

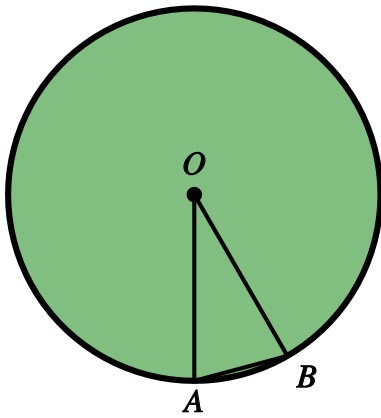**5)** In the diagram below, angle ABC = 88°. [1]

Find angle ADC

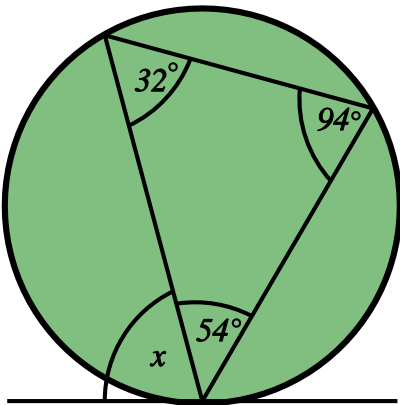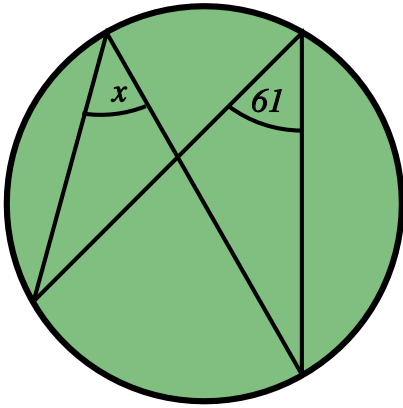**6)** In the diagram below, angle ABO = 54°.   [1]

Find angle AOB.

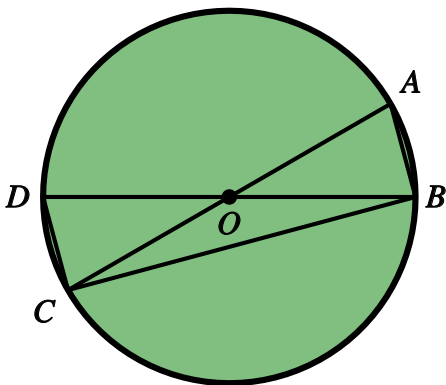**7)** Find angle x in the following diagram.   [1]
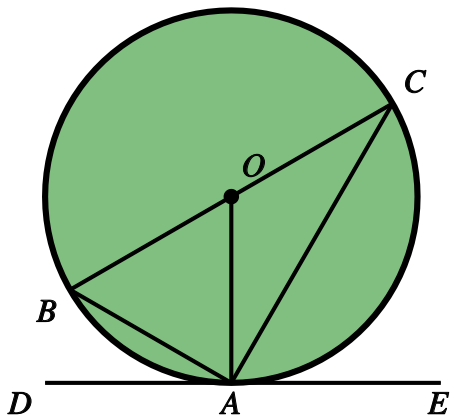
8) Find angle x in the following diagram. [1]

9) In the diagram below, angle ACB = 69°. [1]

Find angle BDC.

10) In the diagram below, angle CAE = 34°.

Find the following angles

a) angle OCA

b) angle DAB

[1]

Solutions for the assessment Circle Theorems - no reasons needed

1) a) angle ABC = 90°
b) angle ACB = 59°

2) angle ABC = 59°

3) angle ABC = 62.5°

4) angle AOC = 150°

5) angle ADC = 92°

6) angle AOB = 72°

7) $x = 94°$

8) $x = 61°$

9) angle BDC = 21°

10) a) angle OCA = 56°
b) angle DAB = 56°