Name:

Exam Style Questions

Area: Regular Hexagons

Corbettmaths

Equipment needed: Calculator, pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings
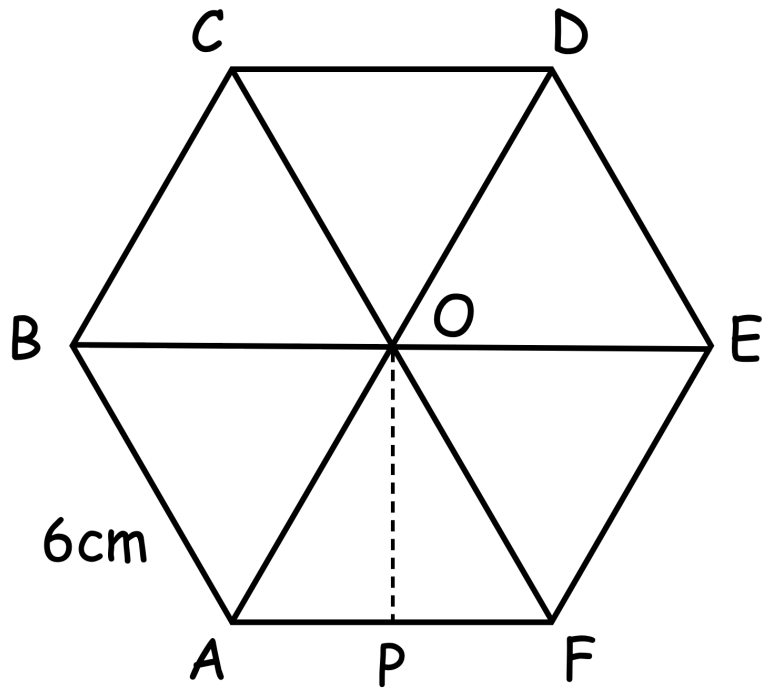
Video Tutorial

www.corbettmaths.com/contents

Video 41a

Answers and Video Solutions

1. ABCDEF is a regular hexagon, with side length 6cm.
   The hexagon has been divided into 6 identical equilateral triangles.

P is the midpoint of the side AF.

(a) Calculate the length OP

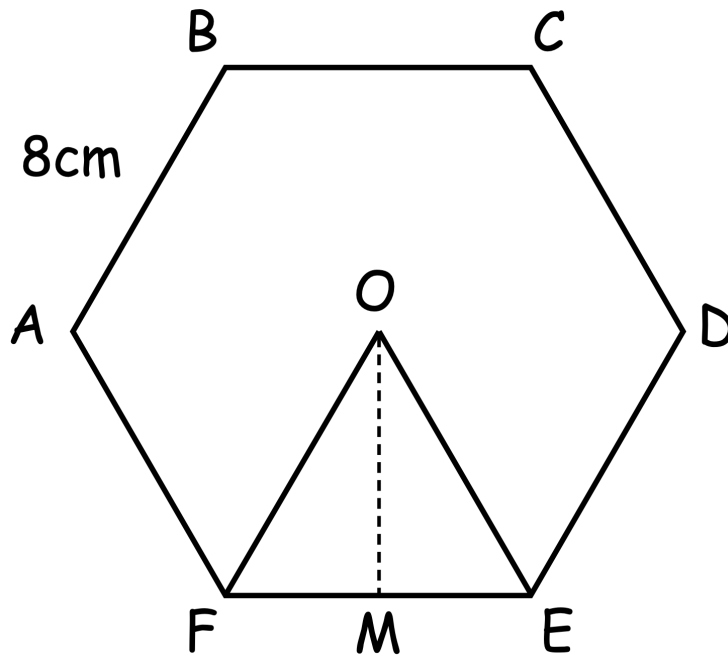......................cm

(2)

(b) Calculate the area of triangle AOF

......................cm²

(2)

(c) Calculate the area of the hexagon ABCDEF

......................cm²

(1)

2. ABCDEF is a regular hexagon with centre O.
The side length of the hexagon is 8cm.

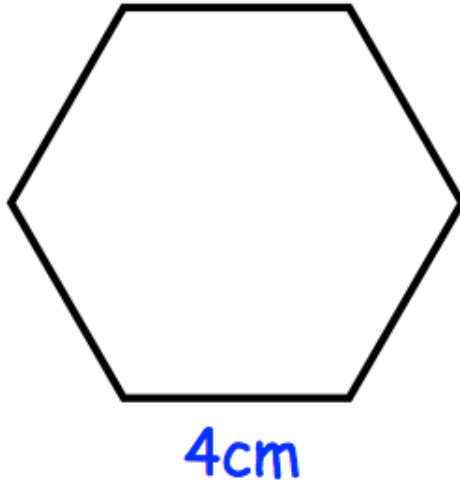M is the midpoint of the side EF.

(a) Calculate the length OM.

......................cm

(2)

(b) Calculate the area of triangle OEF

......................cm²

(2)

(c) Calculate the area of the hexagon ABCDEF

......................cm²

(1)

3.

4cm

A regular hexagon has side length 4cm.

Calculate the area of the hexagon.

....

(5)

4. A regular hexagon has side length 10cm.

Calculate the area of the hexagon.

....
(5)

5. A regular hexagon has perimeter 72cm.

Calculate the area of the hexagon.

..................................cm²

(5)