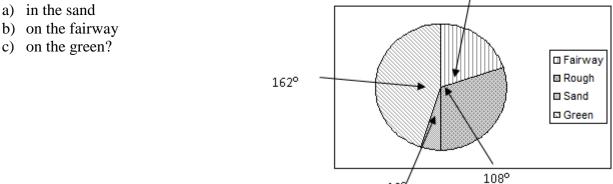
National 4 Mathematics: Homework 7

§ 1 Pie Charts

72° George analysed his golf game and drew the pie chart opposite. 1 His time for a complete round was 240 minutes. How long did he spend

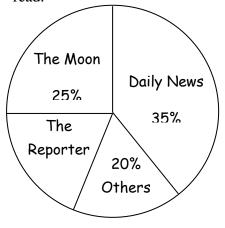


18°

2 Draw a pie chart to represent the information in the table below

Day	Monday	Tuesday	Wednesday	Thursday	Friday
Pupils absent	6	4	3	5	8

3 The pie-chart shows the results when 120 people were askes which daily newspaper they read.

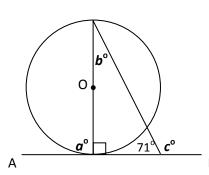


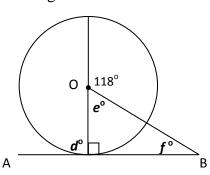
- a) Which paper is the most popular?
- b) What percentage read The Reporter?
- c) How many people read the Daily News?

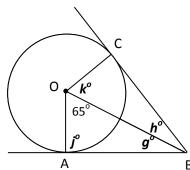
National 4 Mathematics: Homework 7

§ 2 Angles in a Circle

1 In the diagrams below the lines AB (and BC) are tangents to the circles centre O. Calculate the sizes of the marked angles.

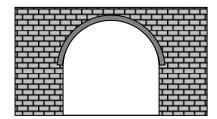


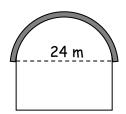




§ 3 Mixed

The arch of a bridge is semicircular.It is to be supported by a strip of metal round the edge of the semicircle.

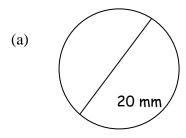


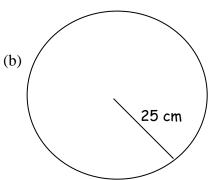


The diameter of the semi-circle is 24 metres.

Calculate the length of the metal strip.

2 Calculate the circumference of the following circles





3 Factorise:

a)
$$12x + 18$$

b)
$$4g + 4$$

c)
$$21r + 7$$

d)
$$3q - 6$$

g)
$$6c + 9c$$