## National 4 Mathematics: Homework 7

## § 1 Pie Charts

1 George analysed his golf game and drew the pie chart opposite.
His time for a complete round was 240 minutes. How long did he spend
a) in the sand
b) on the fairway
c) on the green?


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

1 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
(a)

(b)


3 Factorise:
a) $12 x+18$
b) $4 g+4$
c) $21 r+7$
d) $3 q-6$
e) $32 h-28$
f) $5 x-15$
g) $6 c+9 c$
h) $18 t-36$

