Nalanda Collage – Colombo 10

Grade 09 – Third Term

Unit Test 27

Mathematics

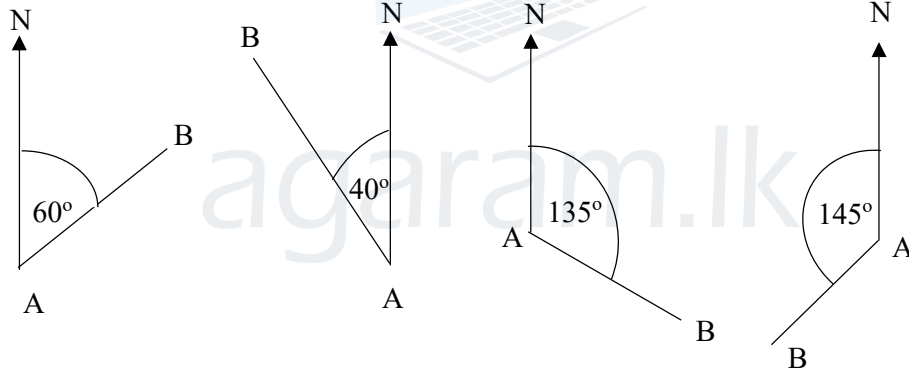## Scale Diagrams

$1\frac{1}{4}$ hours

Part I

Answer all the questions.

1. Mention 3 characteristics of bearing.

2. Mention the location of 4 sub directions using bearing.

3. Find the bearing of B from A in following figures.

5. Using a protractor to measure the angles ,illustrate each of the following bearings by drawing a figure.

   i) Bearing of Q from P is 072°   ii) Bearing of B from A is 140°
   iii) Bearing of Y from X is 192°   iv)Bearing of N from M is 275°

6. Find the actual length represented by 1cm according to the given scales.
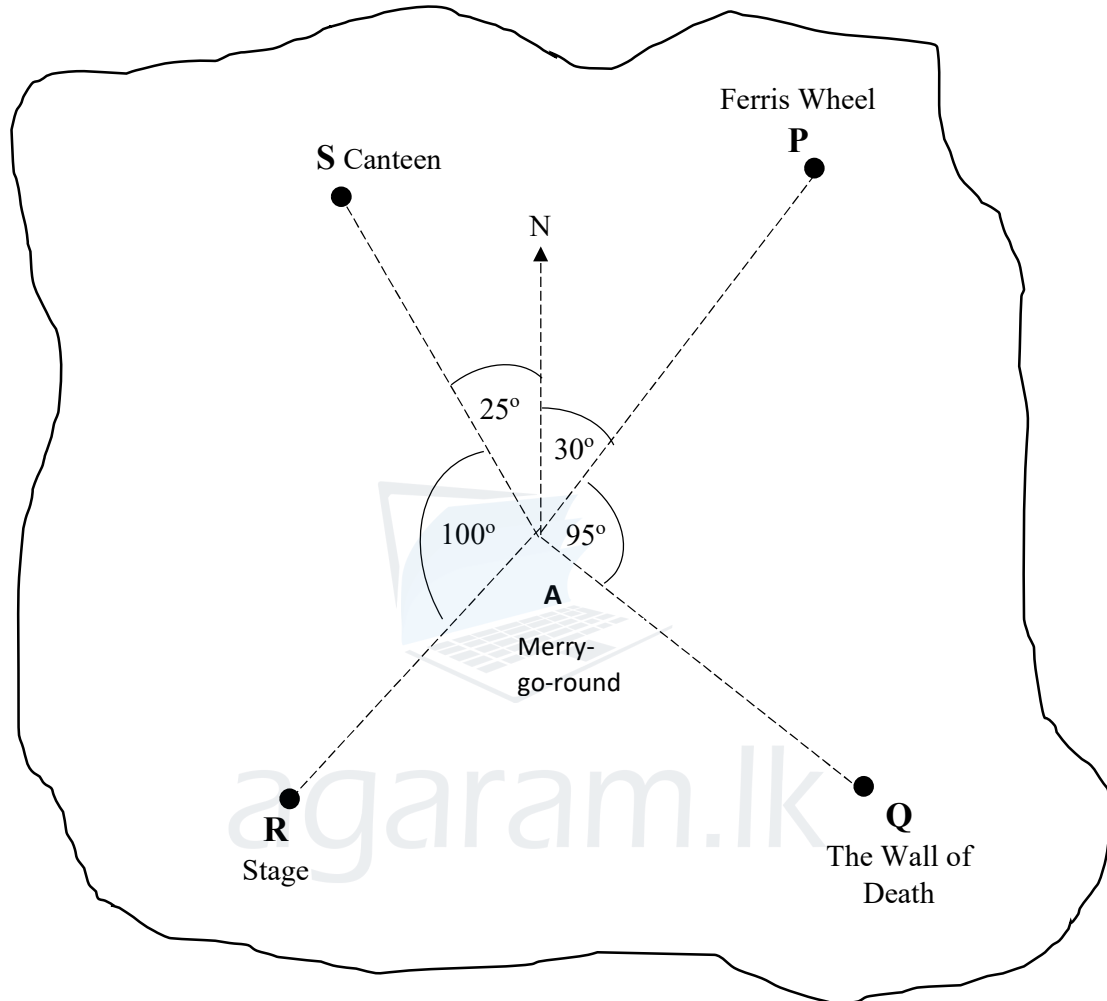
   i) 1 : 20 000   ii) 1 : 500 000

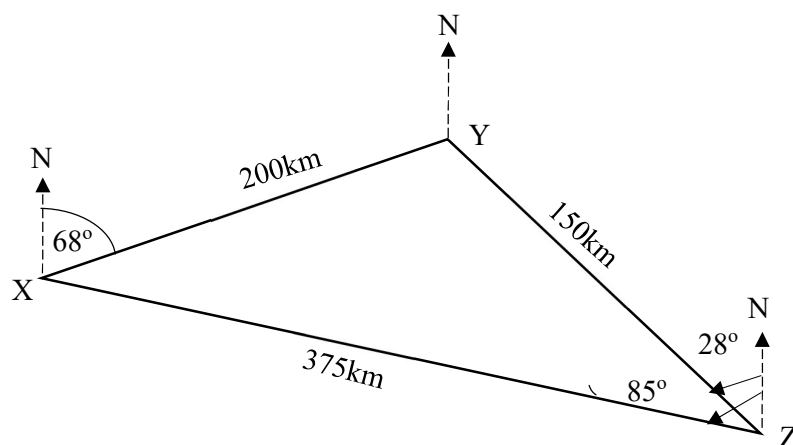   iii) 1 : 500   iv) 1 : 1 000 000

1

Part II

1. Following sketch shows a rough plan of a carnival.

Describe the location of each place using bearing from merry-go-round.

2. In following diagram X,Y,Z are 3 harbors and a ship is to travel to those harbors.
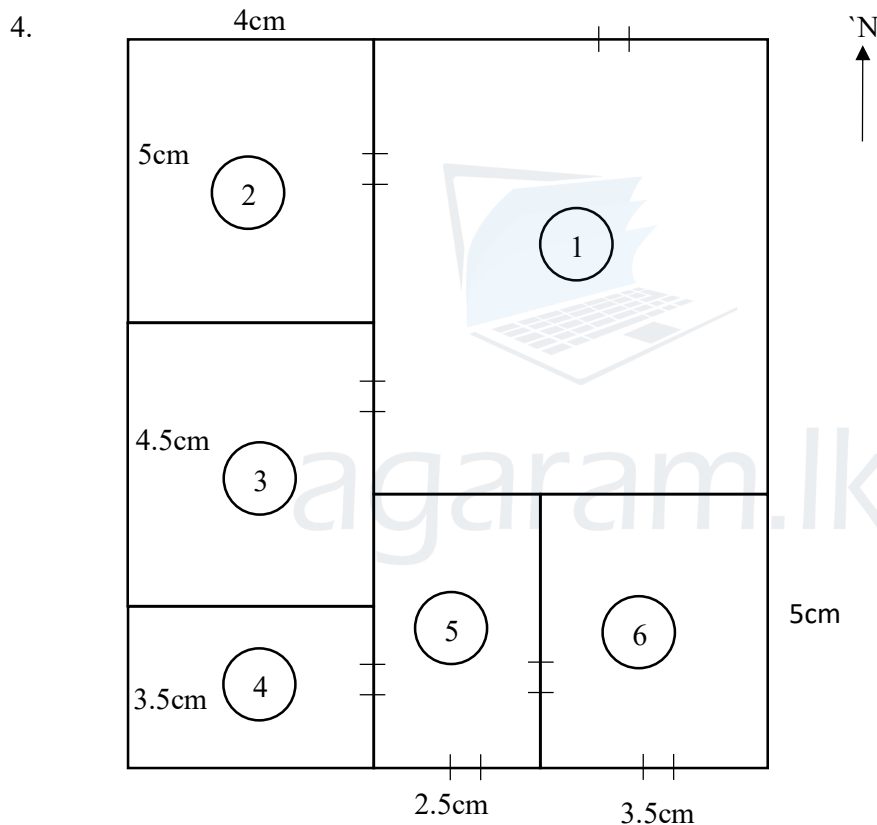

2

If the ship started the journey from X and reached Y.Then sailed to Z and again directly sailed towards X,describe the route of the ship.

3.   A pilot of a certain airplane which is scheduled to fly from P has been instructed to fly 250km on a bearing of 078° and there onwards 150km on a bearing of 170° and reach Q.Sketch the above given route of the airplane.

i)By drawing a scale diagram choosing a suitable scale find,
a) Bearing of Q from P
b) Distance between P and Q
c) Bearing of P from Q

4.

The floor plan of a house to be constructed which is drawn to scale is shown above.

If the breadth of (2) is 4m;

a) Find the scale of the scale drawing
b) Find actual length and breadth of (1)