



ACHIEVE ACADEMY

GCSE Maths — Foundation Tier

Constructions, Loci & Bearings · Practice Booklet

NAME:

CLASS:

DATE:

☐ Developing

☒ Secure

☐ Greater Depth

Answer every question in the working space provided. Method marks are available for correct working even if the final answer is wrong. Check the time allowed with your tutor before you start.

Constructions, Loci & Bearings

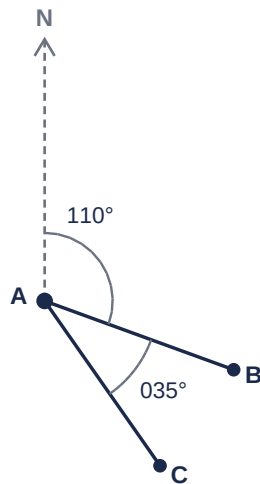
Total marks available: 75

● Constructions, Loci & Bearings

Q1

[2 marks]

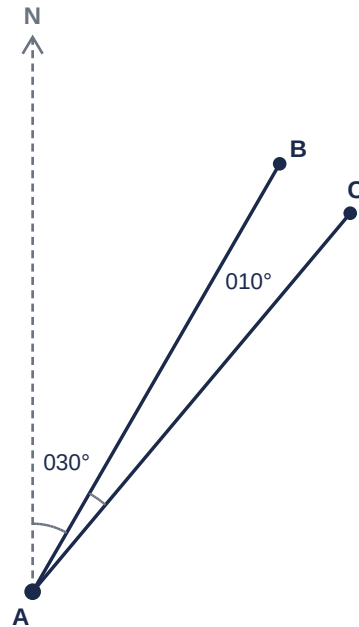
The bearing of B from A is 110° . C is on a bearing that is a further 35° clockwise from B, as shown. Find the bearing of C from A.



Q2

[2 marks]

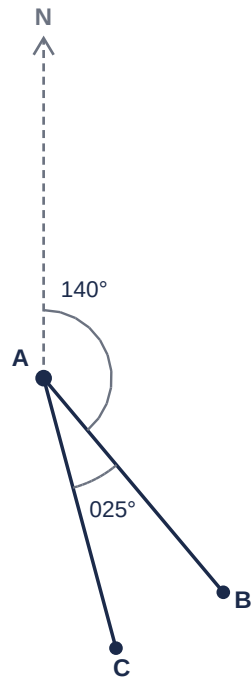
The bearing of B from A is 030° . C is on a bearing that is a further 10° clockwise from B, as shown. Find the bearing of C from A.



Q3

[2 marks]

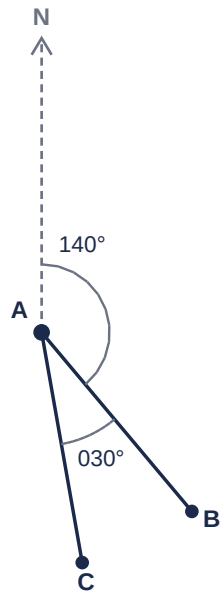
The bearing of B from A is 140° . C is on a bearing that is a further 25° clockwise from B, as shown. Find the bearing of C from A.



Q4

[2 marks]

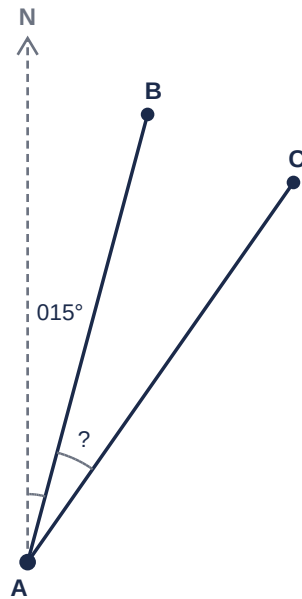
The bearing of B from A is 140° . C is on a bearing that is a further 30° clockwise from B, as shown. Find the bearing of C from A.



Q5

[2 marks]

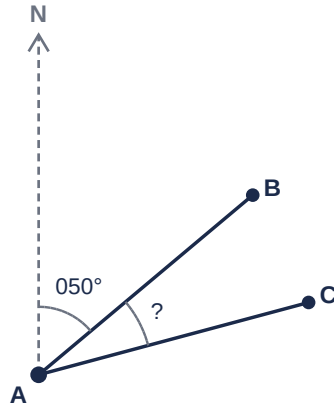
The bearing of B from A is 015° and the bearing of C from A is 035° , as shown. Find the angle turned clockwise from B to C.



Q6

[2 marks]

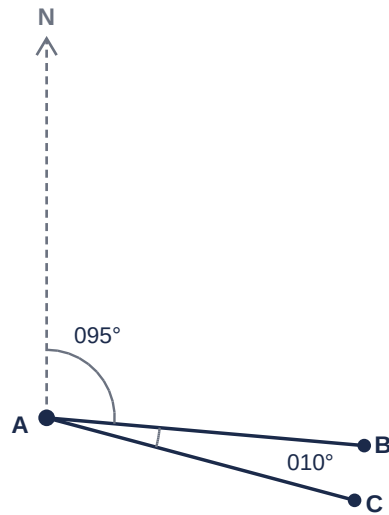
The bearing of B from A is 050° and the bearing of C from A is 075° , as shown. Find the angle turned clockwise from B to C.



Q7

[2 marks]

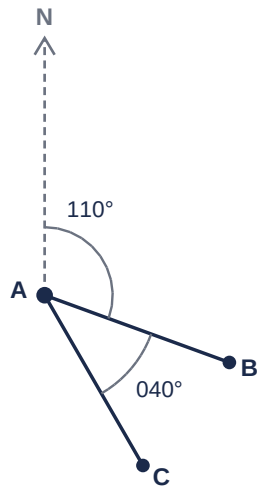
The bearing of B from A is 095° . C is on a bearing that is a further 10° clockwise from B, as shown. Find the bearing of C from A.



Q8

[2 marks]

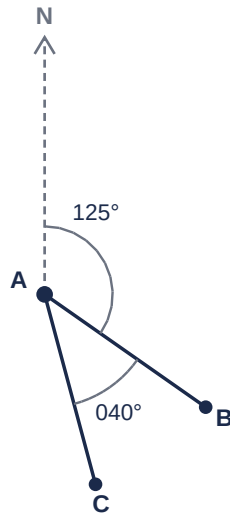
The bearing of B from A is 110° . C is on a bearing that is a further 40° clockwise from B, as shown. Find the bearing of C from A.



Q9

[2 marks]

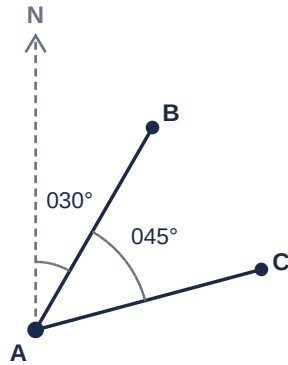
The bearing of B from A is 125° . C is on a bearing that is a further 40° clockwise from B, as shown. Find the bearing of C from A.



Q10

[2 marks]

The bearing of B from A is 030° . C is on a bearing that is a further 45° clockwise from B, as shown. Find the bearing of C from A.



Q11

[2 marks]

A ship travels from A to B. The direction of B from A is 45° west of north. Write this direction as a bearing.

Q12

[2 marks]

A hiker travels from A towards B. B is north-west of A. Write down the bearing of B from A.

Q13

[3 marks]

The bearing of a plane at B from a lighthouse at A is 325° . Find the bearing of the lighthouse A from the plane at B.

Q14

[3 marks]

The bearing of a ship at B from a lighthouse at A is 300° . Find the bearing of the lighthouse A from the ship at B.

Q15

[3 marks]

The bearing of a plane at B from a lighthouse at A is 265° . Find the bearing of the lighthouse A from the plane at B.

Q16

[2 marks]

A hiker travels from A to B. The direction of B from A is 70° east of south. Write this direction as a bearing.

Q17

[3 marks]

The bearing of a plane at B from a lighthouse at A is 030° . Find the bearing of the lighthouse A from the plane at B.

Q18

[2 marks]

A ship travels from A to B. The direction of B from A is 70° west of south. Write this direction as a bearing.

Q19

[3 marks]

The bearing of a ship at B from a lighthouse at A is 310° . Find the bearing of the lighthouse A from the ship at B.

Q20

[2 marks]

A plane travels from A to B. The direction of B from A is 35° west of north. Write this direction as a bearing.

Q21

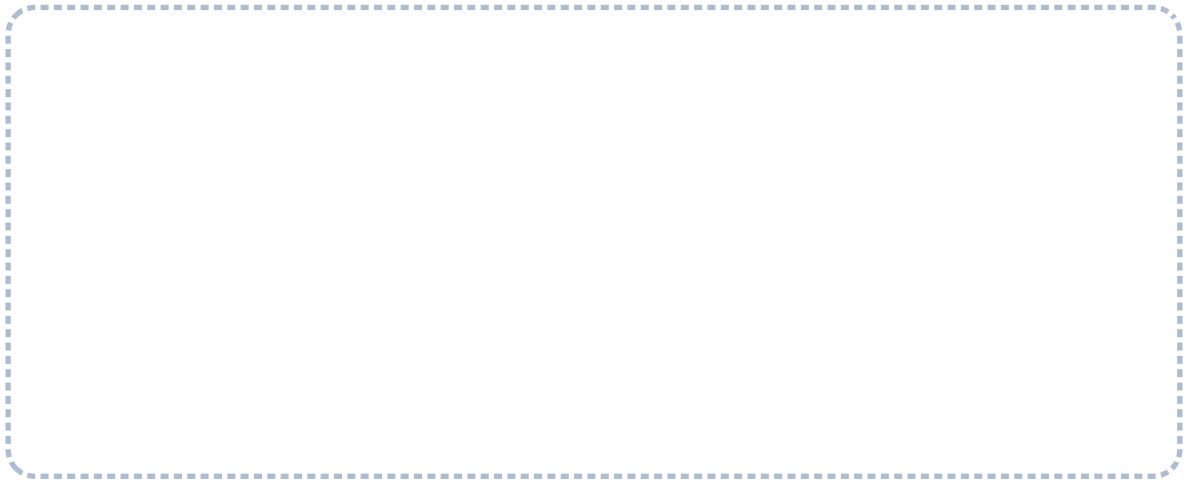
[3 marks]

A map has a scale of 1 cm to 10 km. Two towns are 15 cm apart on the map. Find the real distance between the towns, in km.

Q22

[3 marks]

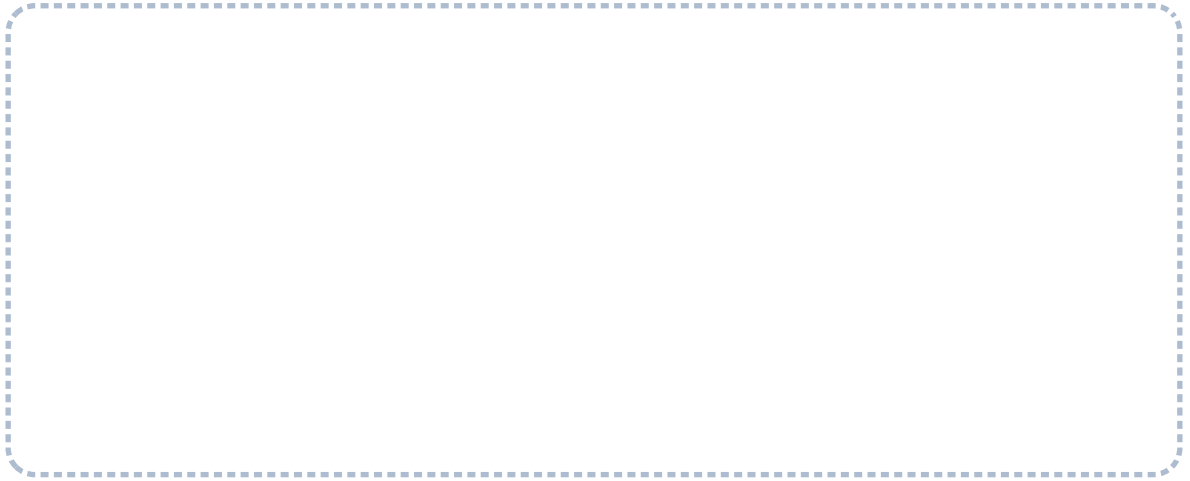
A map has a scale of 1 cm to 10 km. Two towns are 140 km apart in real life. Find the distance between the towns on the map, in cm.



Q23

[3 marks]

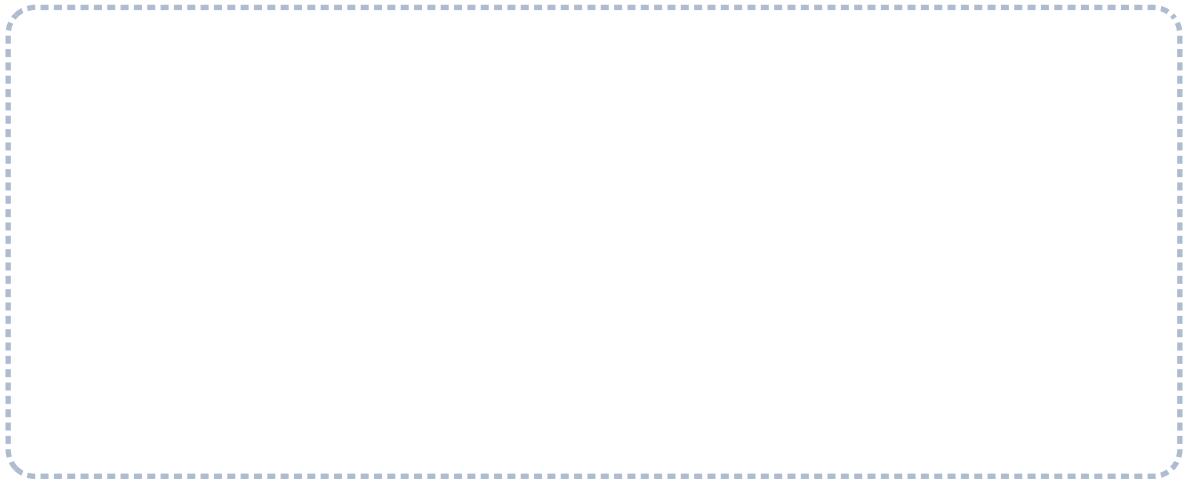
A map has a scale of 1 cm to 10 km. Two towns are 150 km apart in real life. Find the distance between the towns on the map, in cm.



Q24

[3 marks]

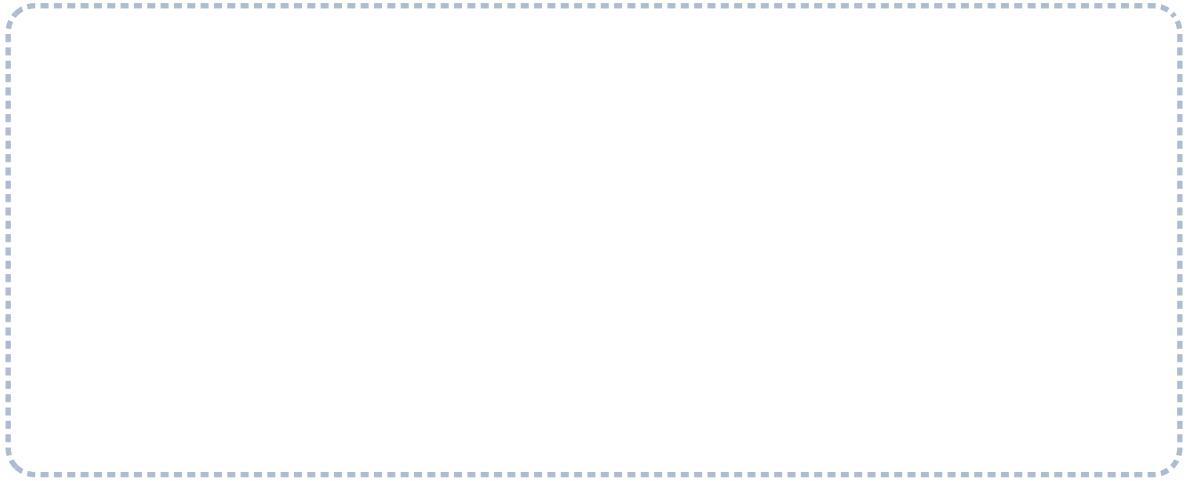
A map has a scale of 1 cm to 2 km. Two towns are 22 km apart in real life. Find the distance between the towns on the map, in cm.



Q25

[3 marks]

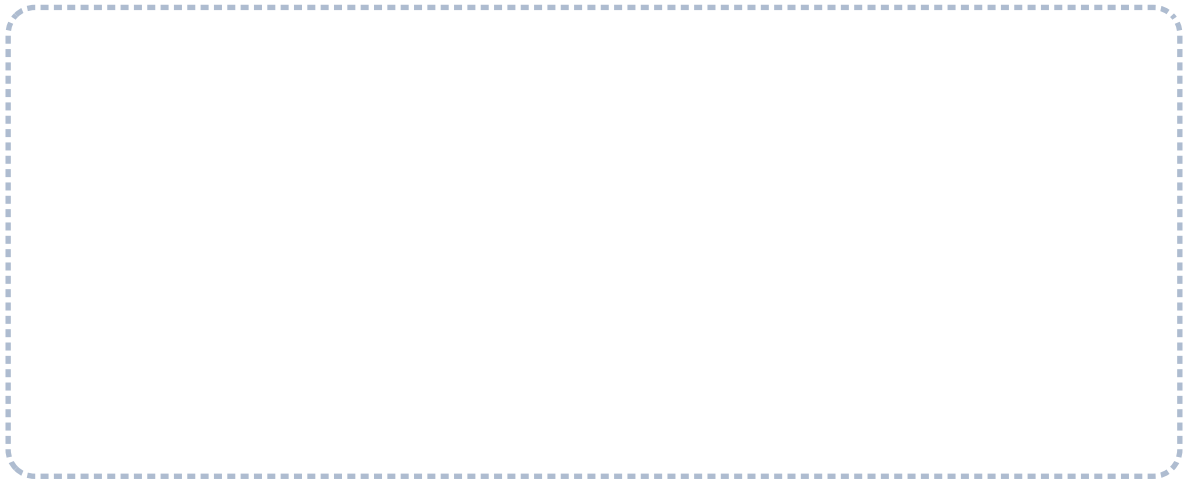
A map has a scale of 1 cm to 4 km. Two towns are 40 km apart in real life. Find the distance between the towns on the map, in cm.



Q26

[3 marks]

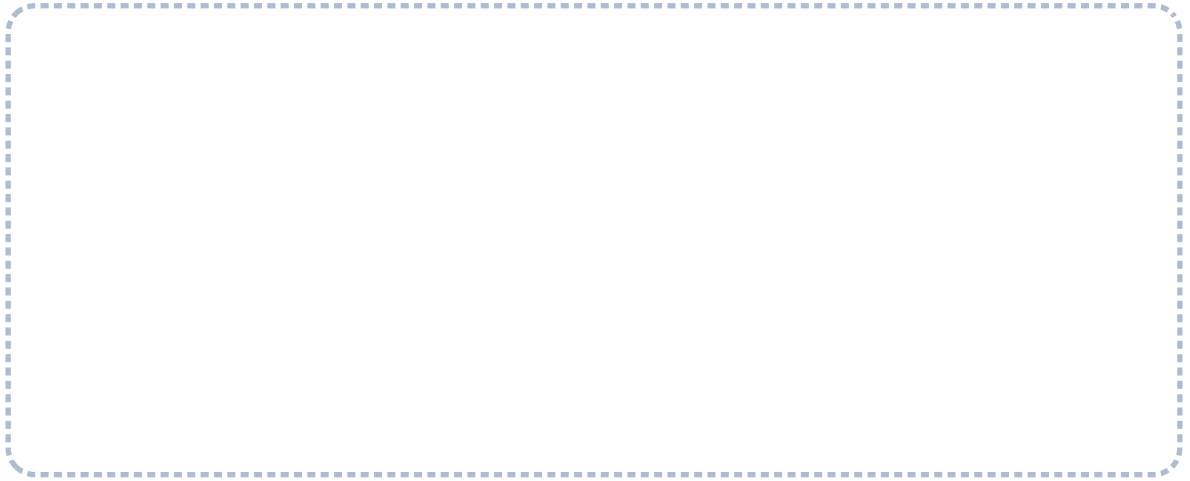
A map has a scale of 1 cm to 2 km. Two towns are 10 km apart in real life. Find the distance between the towns on the map, in cm.



Q27

[3 marks]

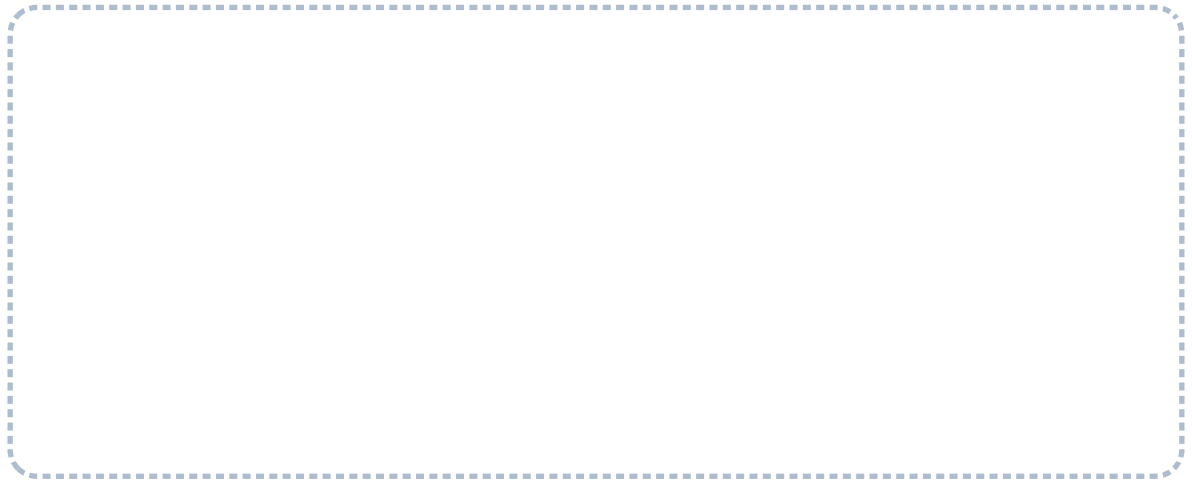
A map has a scale of 1 cm to 2.5 km. Two towns are 14 cm apart on the map. Find the real distance between the towns, in km.



Q28

[3 marks]

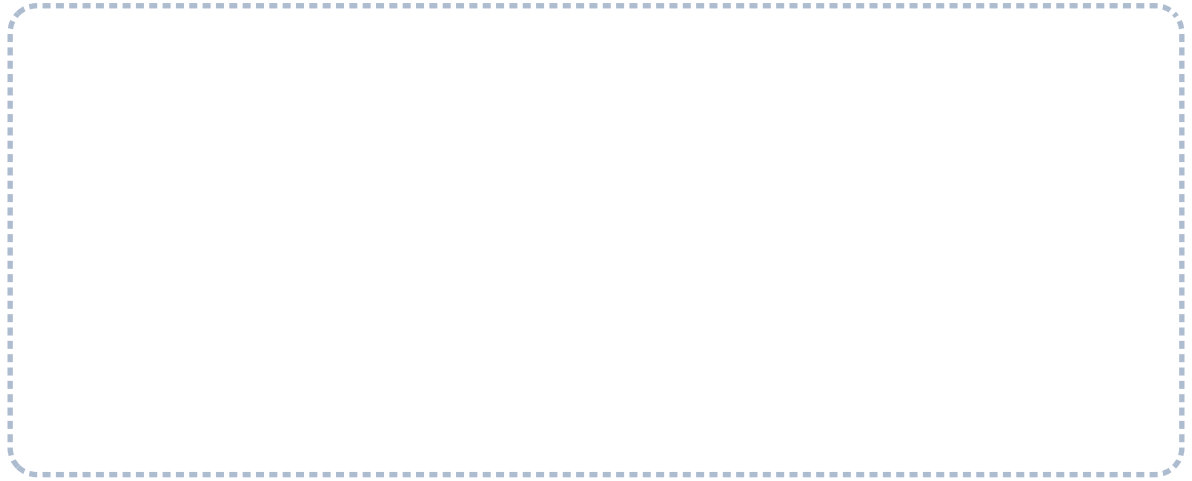
A map has a scale of 1 cm to 5 km. Two towns are 30 km apart in real life. Find the distance between the towns on the map, in cm.



Q29

[3 marks]

A map has a scale of 1 cm to 10 km. Two towns are 10 cm apart on the map. Find the real distance between the towns, in km.



Q30

[3 marks]

A map has a scale of 1 cm to 1.5 km. Two towns are 8 cm apart on the map. Find the real distance between the towns, in km.

