

Past-paper walk-through

Geometrical constructions ■ E4.2

eXercise

Questions in this set

- 0580/41 N25 Q5 ■ 6 marks
- 0580/43 N25 Q4 ■ 4 marks
- 0580/22 J25 Q2 ■ 5 marks

Reading the mark scheme

- **B1** a mark that stands on its own – the point is either made or not.
- **M1** a *method* mark: the right approach, even if the number is wrong.
- **A1** an *answer* mark, and it usually needs its M mark first.
- **C1** a working mark on the way to the answer.
- **//** separates answers the examiner accepts equally.
- **ecf** = error carried forward: a later part is marked on your own earlier answer.
- **owtte** = “or words to that effect” – the wording need not match.

Question 5

0580/41 N25 ■ Q5 ■ 6 marks

5

Question 5



- (a) In triangle ABC , $AB = 8$ cm, $AC = 7$ cm and $BC = 5$ cm.

Using a ruler and compasses only, construct triangle ABC .
The side AB has been drawn for you.

[2]

- (b) Measure angle ACB .

Question 5

(c) Triangle ABC is a scale drawing of a field.

(i) The scale is 1 : 10 000.

Find the actual distance from A to B .
Give your answer in kilometres.

Question 5

- (ii) B is due east of A .
Find the bearing of A from B .

Question 5

Solution 5

(a)

Mark scheme

- Triangle accurately completed
- with arcs at C.
- 2 B1 for accurate triangle with no/incorrect arcs or
- for accurate triangle with arcs but with AC and
- BC reversed

Solution 5

(b)

Mark scheme

- 80 to 85
- 1 FT their triangle if 0 scored in (a)

Solution 5

(c)(i)

Mark scheme

- 0.8
- 1

Solution 5

(c)(ii) Mark scheme

■ 270

■ 1

■ 6

■ 2

■ 3

■ 2

■ —

■ g

Solution 5

- g final answer
- 1

Question 4

0580/43 N25 ■ Q4 ■ 4 marks

- 4 (a) The scale diagram shows the position of town A on a map.
Town B is 12 km from town A on a bearing of 080° .

Using a scale of 1 cm represents 2 km, mark the position of town B on the diagram.



Question 4

Scale: 1 cm to 2 km

[2]

- (b)** The bearing of C from D is 130° .

Work out the bearing of D from C .

Question 4

121 -

Solution 4

(a)

Mark scheme

- B marked 6 cm from A on a bearing of
- 080° .
- 2 M1 for a correct bearing of 080° but
- incorrect length or for a 6 cm line from A

Solution 4

(b)

Mark scheme

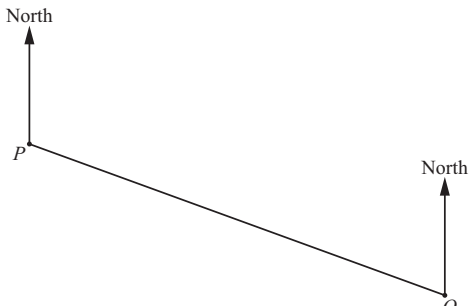
- 310
- 2 M1 for $180 + 130$ oe
- or indicates required bearing on a sketch

Question 2

0580/22 J25 ■ Q2 ■ 5 marks

- 2 The scale drawing shows the positions of two villages, P and Q .

The scale is 1 cm represents 0.5 km.



Question 2

2

- (a) Find the actual distance between village P and village Q .

Question 2

- (b) Measure the bearing of village Q from village P .

Solution 2

(a)

Mark scheme

- 4.4 to 4.6
- 2 B1 for 8.8 [cm] to 9.2 [cm]
- or M1 for $0.5 \times$ their written measurement
- where their measurement is in the range 8 to

Solution 2

(b)

Mark scheme

- 108 to 112
- 1