



EXAM PAPERS PRACTICE

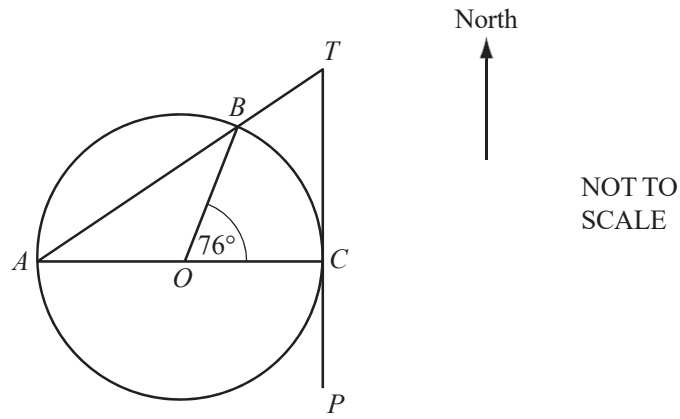
Bearings

Question Paper

Question 1



EXAM PAPERS PRACTICE



AOC is a diameter of the circle, centre O .
 AT is a straight line that cuts the circle at B .
 PT is the tangent to the circle at C .
Angle $COB = 76^\circ$.

(a) Calculate angle ATC .

[2]

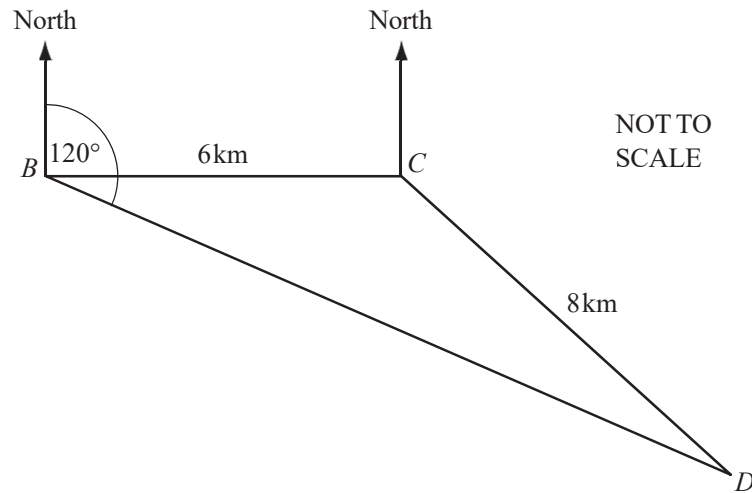
(b) T is due north of C .

Calculate the bearing of B from C .

[2]

Question 2

A helicopter flies from its base B to deliver supplies to two oil rigs at C and D .
 C is 6 km due east of B and the distance from C to D is 8 km.
 D is on a bearing of 120° from B .



Find the bearing of D from C .

[5]

Question 3

From a harbour, H , the bearing of a ship, S , is 312° . The ship is 3.5 km from the harbour.

- (a) Draw a sketch to show this information.
Label H , S , the length 3.5 km and the angle 312° .

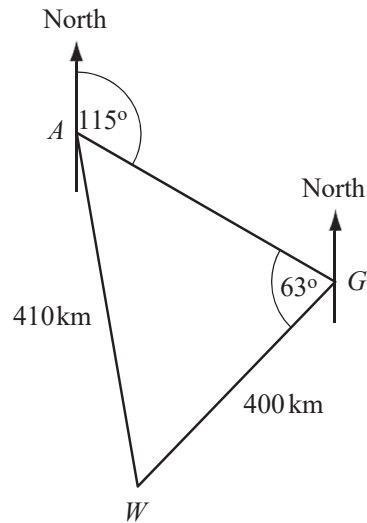
[2]

- (b) **Calculate** how far north the ship is of the harbour.

[2]

Question 4

A plane flies from Auckland (A) to Gisborne (G) on a bearing of 115° .
The plane then flies on to Wellington (W). Angle $AGW = 63^\circ$.



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SCALE

(a) Calculate the bearing of Wellington from Gisborne.

[2]

(b) The distance from Wellington to Gisborne is 400 kilometres.
The distance from Auckland to Wellington is 410 kilometres.

Calculate the bearing of Wellington from Auckland.

[4]