4.6 Measuring, Drawing and Constructing: 10-minute Pack

Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A student constructs the perpendicular bisector of segment MN. The endpoints are M(1, 2) and N(9, 6). Find the equation of the perpendicular bisector in the form $y = mx + c$.

(4)

2 An angle measures 107°. Is it acute, obtuse, right or reflex? Give the type, and write down the size of the reflex angle that goes with it.

(2)

3 Write down the three-figure bearing of North West.

(1)

4 Maya measures an angle with a protractor. One arm of the angle passes through the 11° mark and the other arm passes through the 172° mark on the same scale. Work out the size of the angle.

(2)

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Mark scheme · 4.6 Measuring, Drawing and Constructing: 10-minute Pack

Question 1

finds midpoint: ((1+9)/2, (2+6)/2) = (5, 4)	**M1**
finds gradient of MN: (6-2)/(9-1) = 4/8 = 1/2 and uses negative reciprocal for perpendicular gradient -2	**M1**
substitutes midpoint to get c: 4 = -2*5 + c so c = 14	**A1**
gives final equation y = -2x + 14 cao	**A1**

Answer: **y = -2x + 14**

Question 2

obtuse	**B1**
253°	**B1**

Answer: **obtuse; 253°**

Question 3

315° cao	**B1**

Answer: **315°**

Question 4

172 - 11	**M1**
161° cao	**A1**

Answer: **161°**

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