10.3-6 Reasoning Practice Paper 6: 10-minute Pack

STA KS2 National Curriculum Mathematics - STA Reasoning Test Framework · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 The table shows the temperature recorded in four UK cities at 07:00 on 12/01/2026.

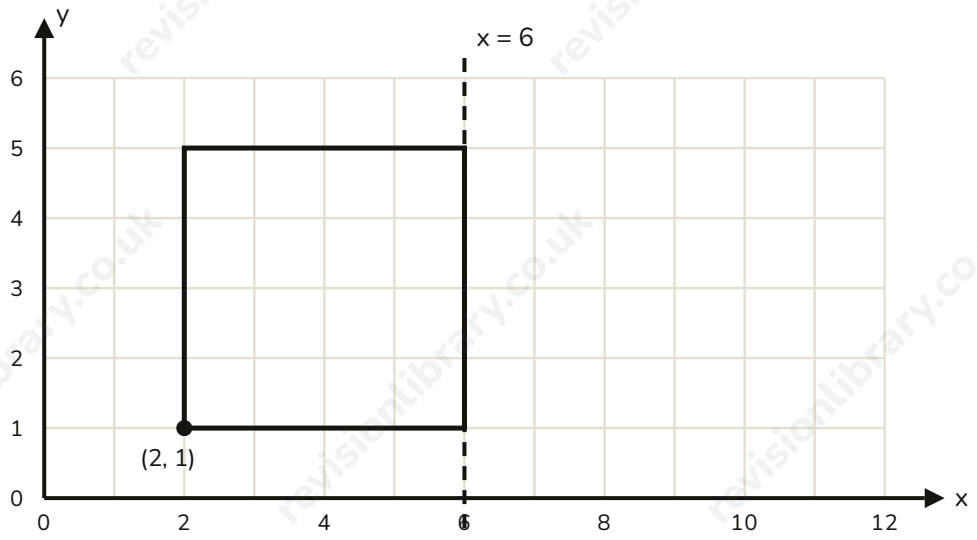
Aberdeen -4C | Cardiff -1C | Leeds 2C | Belfast -6C

Write the cities in order of temperature, starting with the coldest.

(1)

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2 A quadrilateral has vertices at coordinates (2,1), (2,5), (6,5) and (6,1).



(a) Write down the name of this quadrilateral. **(1)**

(b) The quadrilateral is reflected in the line x = 6. Write down the coordinates of the image of the vertex that was originally at (2,1). **(2)**

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3 A school is organising a theme park trip.
- Entry tickets cost £24 per pupil.
- A packed lunch costs £3.50 per pupil.
- Coach hire costs a flat fee of £180, shared equally between all the pupils going.

128 pupils are going on the trip.
Calculate the total cost per pupil, giving your answer to the nearest penny.

(4)

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Mark scheme · 10.3-6 Reasoning Practice Paper 6: 10-minute Pack

Question 1

Belfast, Aberdeen, Cardiff, Leeds (all four correctly ordered); cao	**B1**

Answer: **Belfast, Aberdeen, Cardiff, Leeds**

Question 2

(a) square cao	**B1**

(a) Answer: **Square**

(b) distance from (2,1) to the line x=6 found (=4 units)	**M1**
(b) (10,1) cao	**A1**

(b) Answer: **(10,1)**

Question 3

24 + 3.50 (=27.50) found	**M1**
180 div 128 (=1.40625, or awrt £1.41) found	**M1**
27.50 + their coach cost per pupil combined	**M1**
£28.91 awrt cao	**A1**

Answer: **£28.91 (awrt)**

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