

Astronomy
PAPER 1: Naked-eye Astronomy

Wednesday 14 June 2023 – Afternoon

Diagram Booklet

In the boxes below, write your name, centre number and candidate number.

Surname					
Other names					
Centre Number					
Candidate Number					

INSTRUCTIONS

There may be spare copies of some diagrams in case you need them.

THIS DIAGRAM BOOKLET **MUST BE RETURNED WITH THE
QUESTION PAPER AT THE END OF THE EXAMINATION.**

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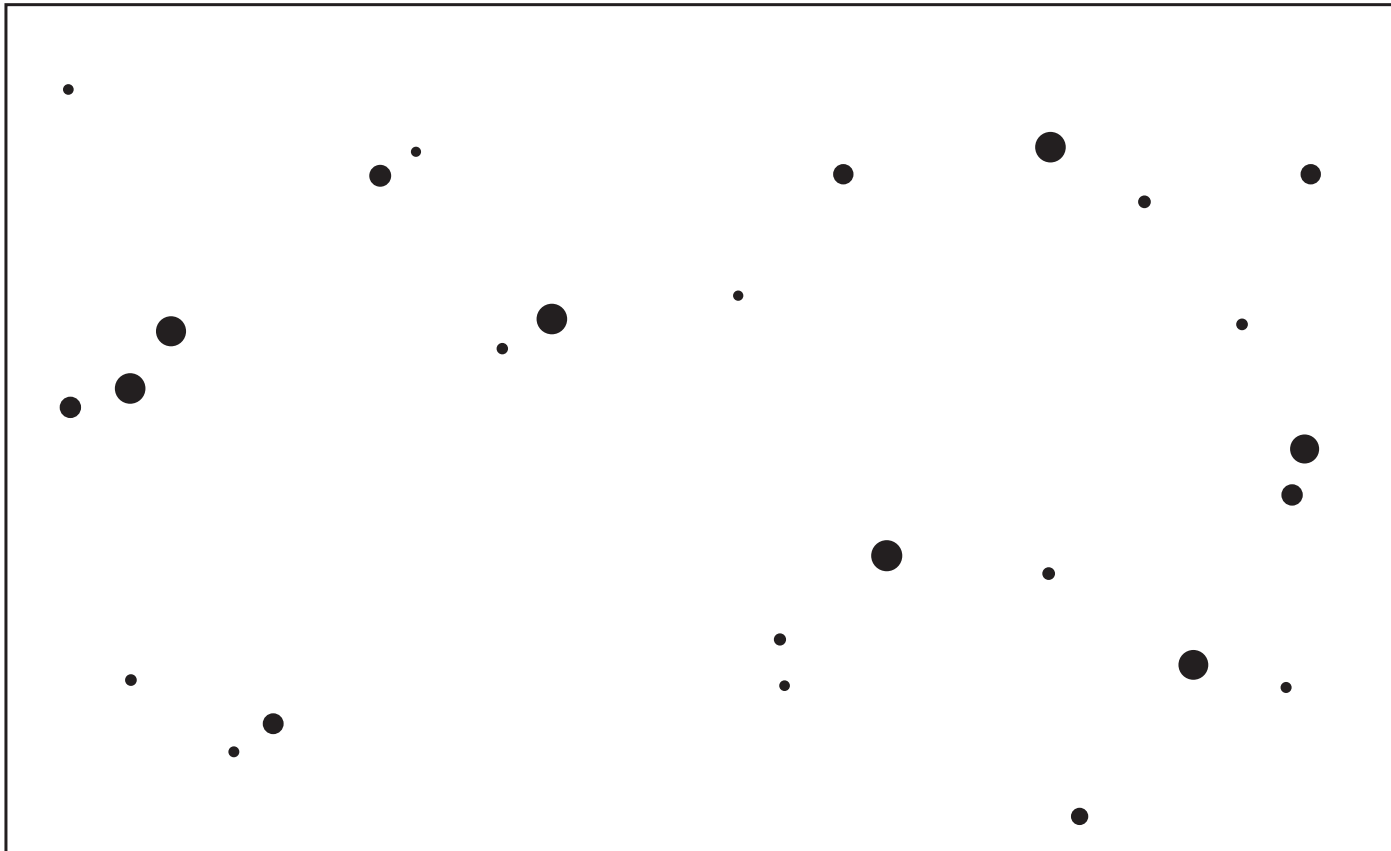
4	Question 1(b)
5	Question 3(a)
6	Question 3(a)(i) – Blank
7	Question 4(a)(i) – Blank
8	Question 5(b)
9	Question 5(b)(ii) – Blank
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11	Question 6(a)
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Spare Copies

22	Question 1(b)
23	Question 6(a)
24	Question 8(a)(iii)

Question 1(b)

FIGURE 4



Question 3(a)**FIGURE 5**

Question 3(a)(i) – Blank

Question 4(a)(i) – Blank

Question 5(b)

FIGURE 7

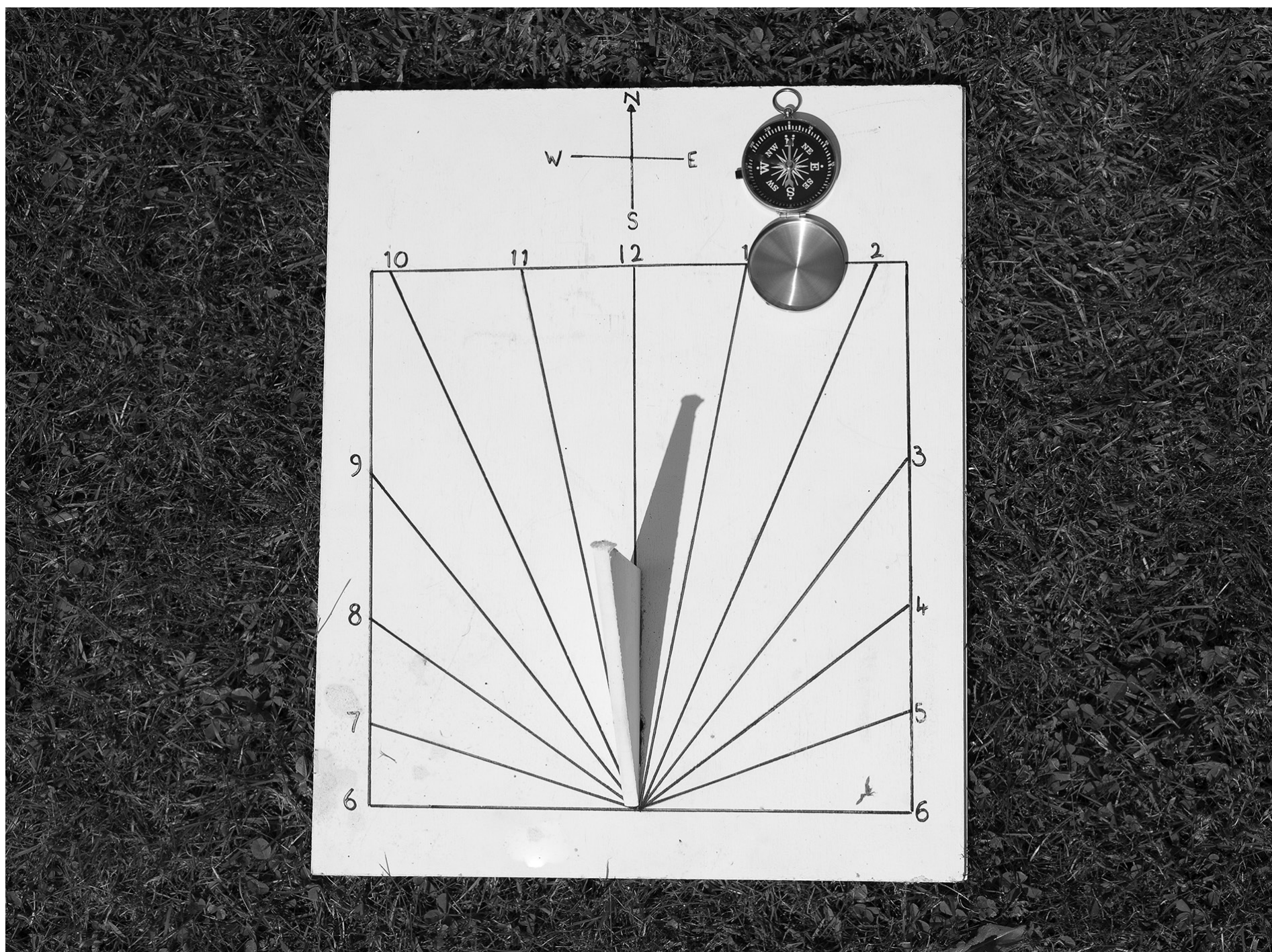


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Question 6

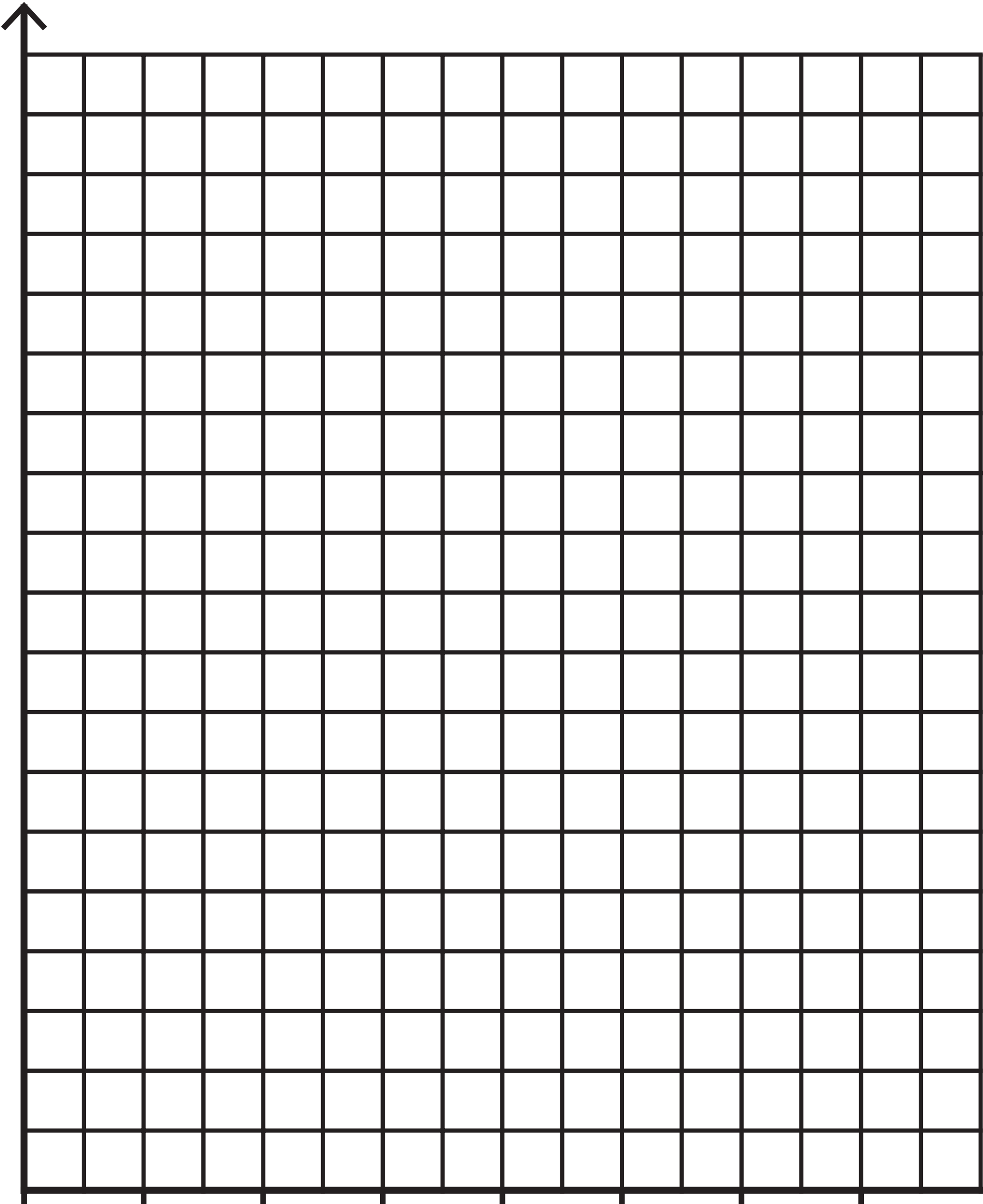
FIGURE 9

FIGURE 8



Question 6(a)

Sundial
Time

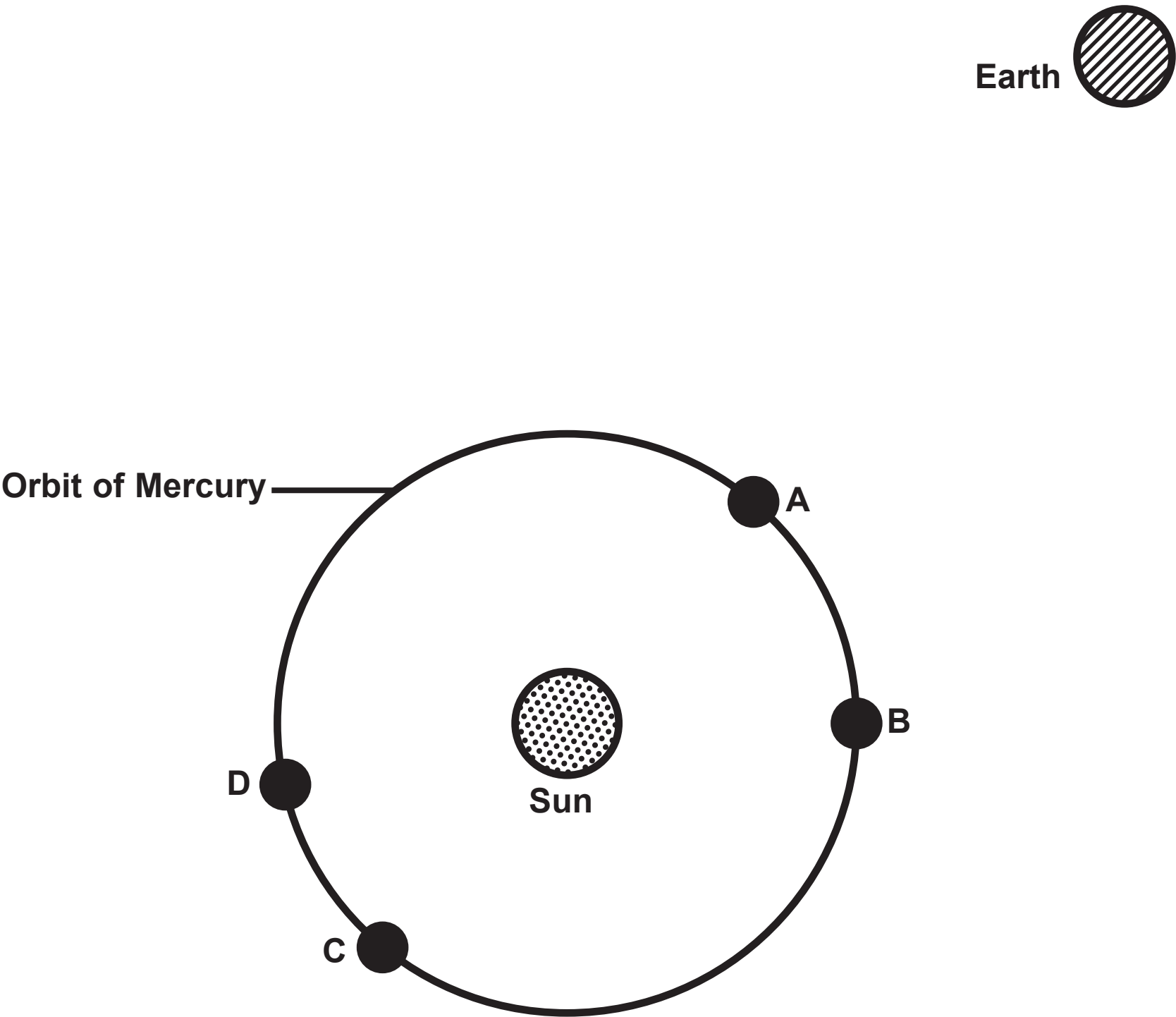


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Clock Time (h:min)

Question 7(b)

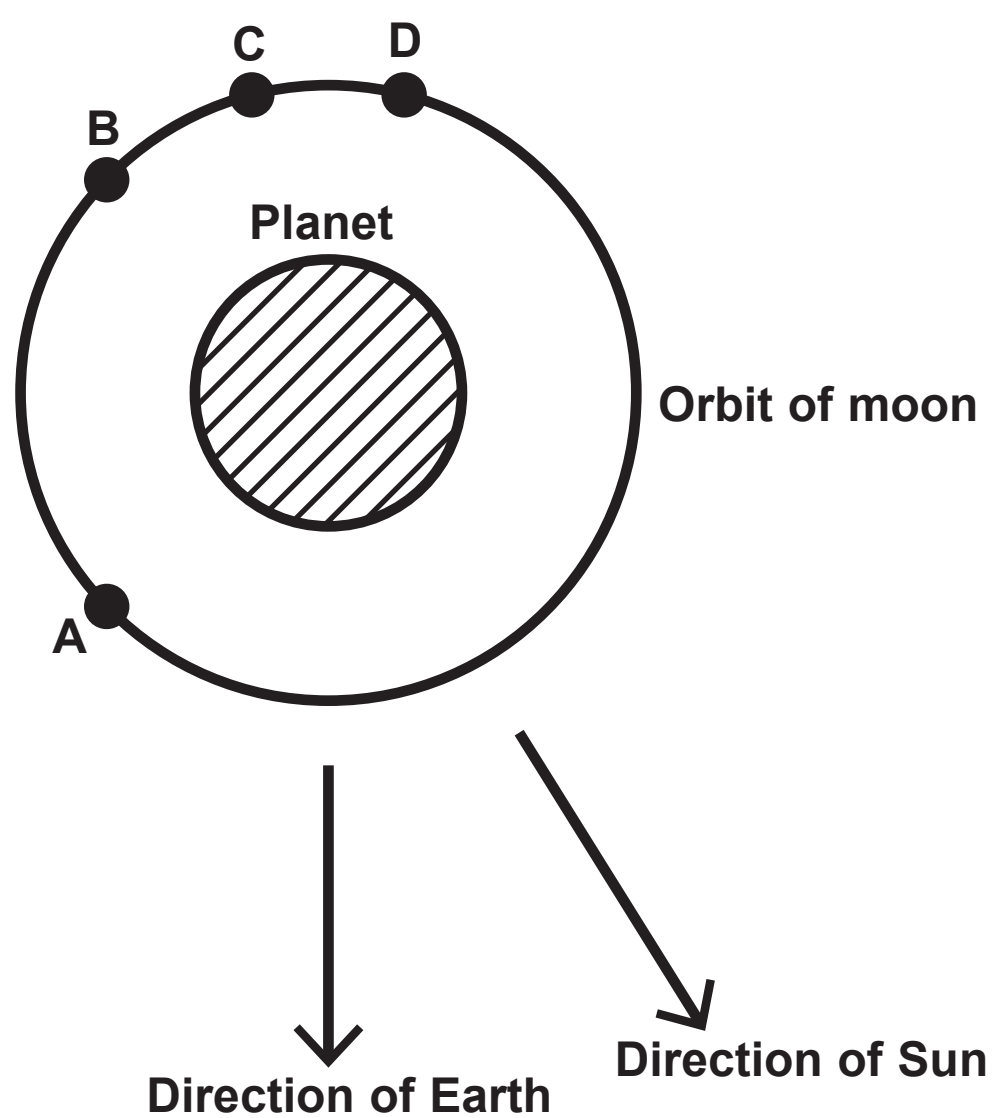
FIGURE 10



Question 7(d)

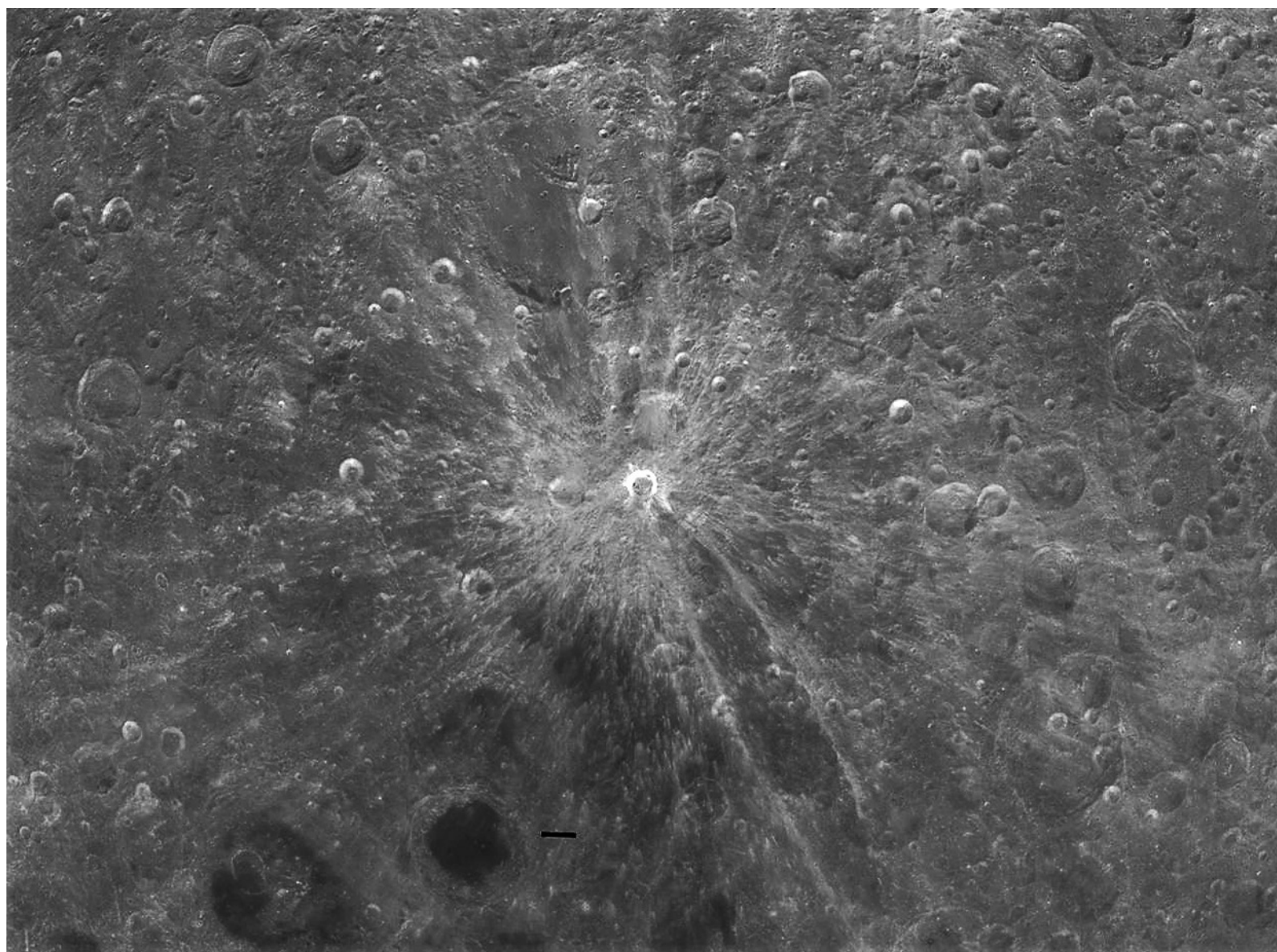
FIGURE 11

Not to scale



Question 8(a)

FIGURE 12



Question 8(a)(iii)**FIGURE 13**

Question 9**FIGURE 14**

Question 9(a)(iii) – Blank

Question 9(c) – Blank

Question 10

FIGURE 15

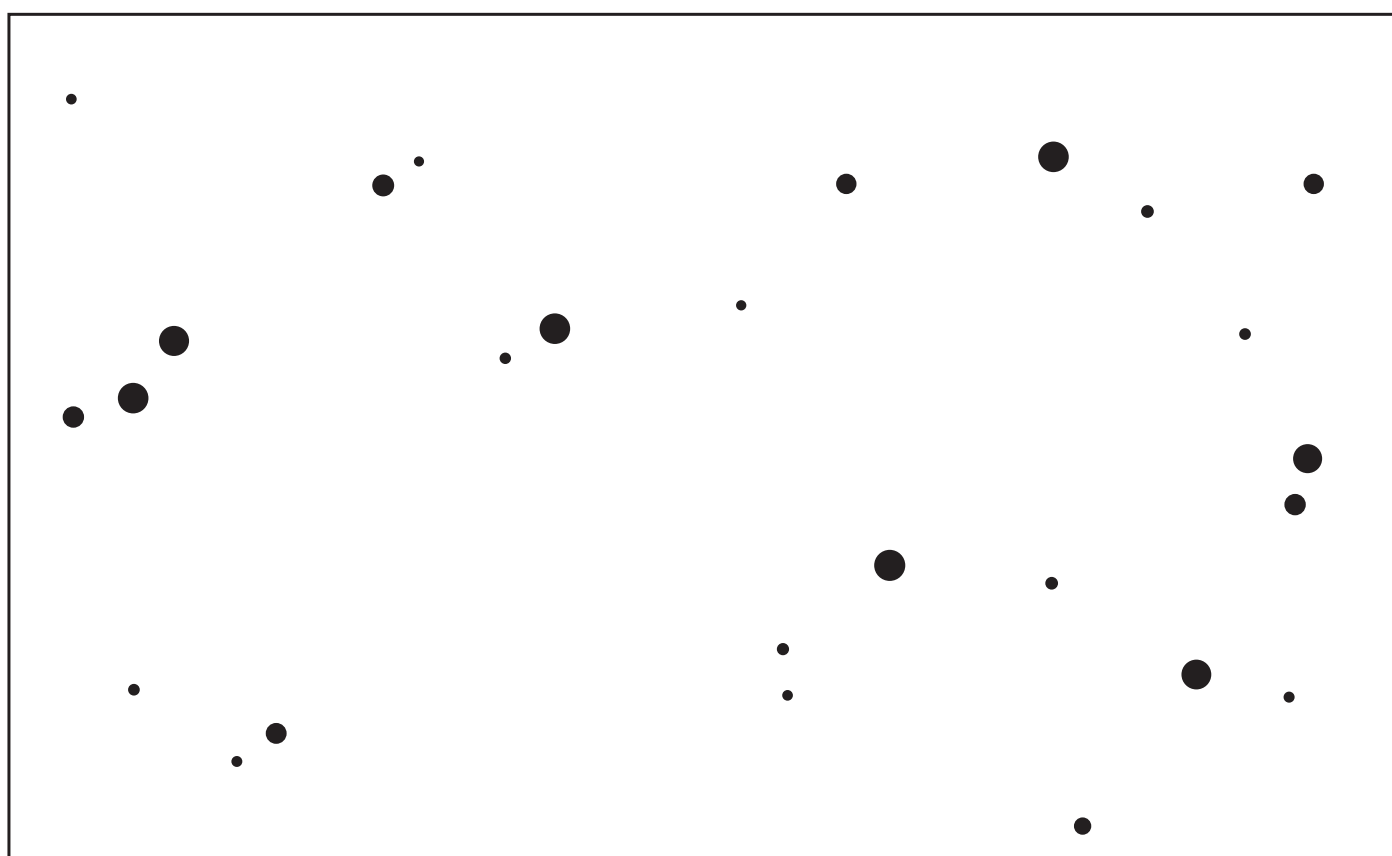


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Question 10(d) – Blank

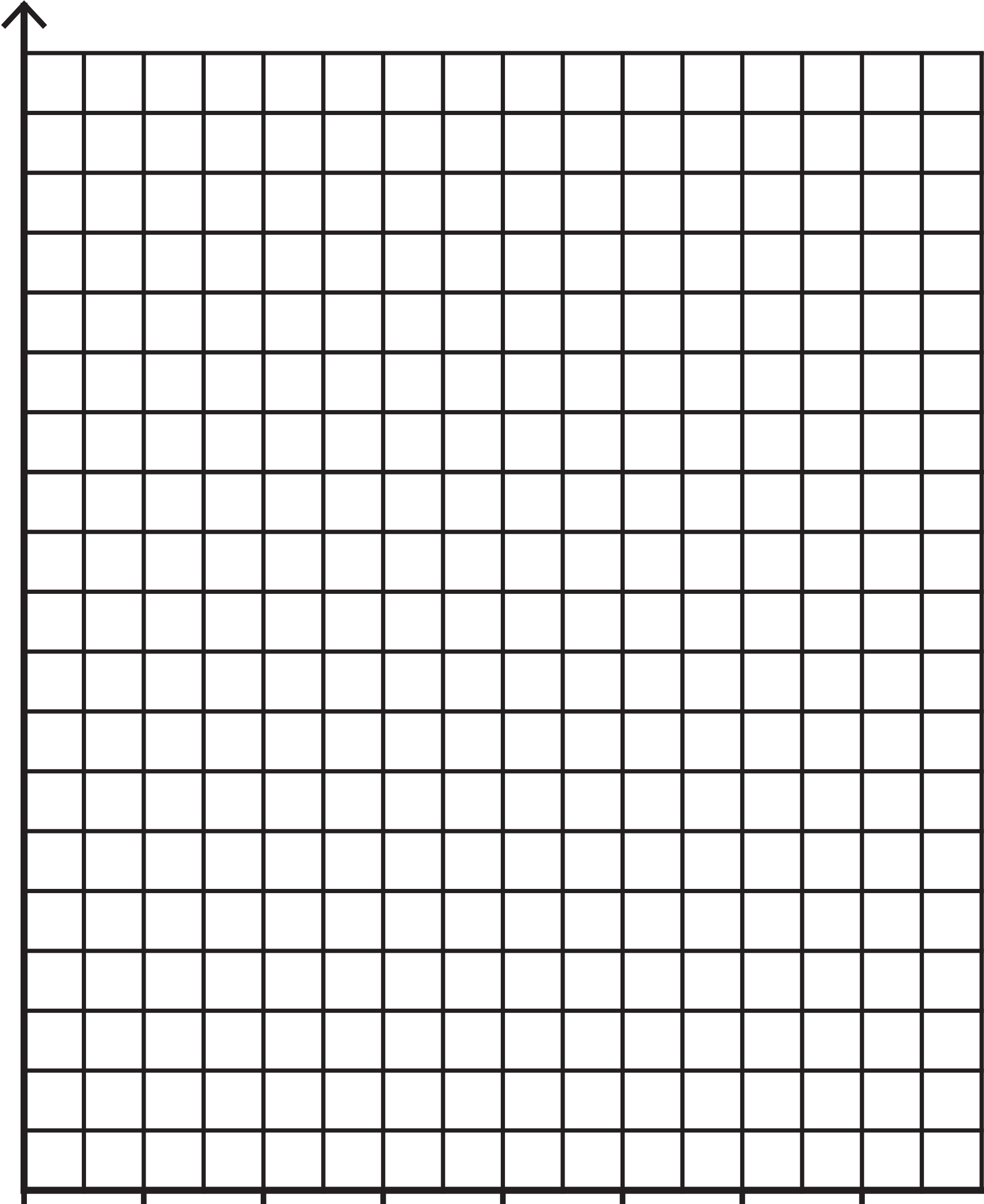
Question 1(b)

FIGURE 4



Question 6(a)

Sundial
Time



11:30 11:40 11:50 12:00 12:10 12:20 12:30

Clock Time (h:min)

Question 8(a)(iii)**FIGURE 13**

IMAGE CREDITS

Figure 5

Image Credit & Copyright: Max Alexander, STFC, SPL

Figure 7

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Figure 12

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Figure 13

Courtesy NASA

Figure 14

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Figure 15

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