

How to use this sheet. A vertical mirror swaps left and right only — up and down never change. For words, reverse the letter order first, then flip each letter. For clocks, subtract the time from 11 hours 60 minutes. Blank boxes are provided for you to sketch mirror images by hand.

Quick reference — Self-mirroring letters: A H I M O T U V W X Y · Self-mirroring digits: 0, 1, 8 · Clock rule: mirror time = 11:60 – actual time

Section A · Multiple choice questions

All questions are built to the AAI pattern. No question in this chapter was found in any extractable or recovered previous year paper.

1. A vertical mirror reverses which pair of directions?

(1) Up and down (2) Left and right (3) Both pairs equally (4) Neither pair

2. Which of these capital letters looks the same in its mirror image?

(1) B (2) F (3) G (4) H

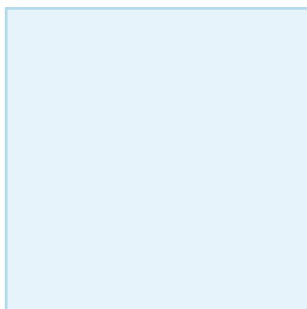
3. Which single digit looks the same in its mirror image?

(1) 2 (2) 8 (3) 5 (4) 7

4. What is the mirror image of the word TIME, read left to right?

(1) TIME, unchanged (2) EMIT, unchanged (3) EMIT, with the E flipped (4) TIME, with every letter flipped

5. A clock shows 3:00. What does its mirror image show? Sketch the mirror clock in the box.

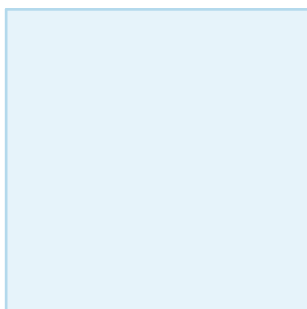


Object clock

Draw the mirror clock face here

(1) 3:00 (2) 9:00 (3) 8:00 (4) 6:00

6. A clock shows 6:45. What does its mirror image show? Sketch the mirror clock in the box.



Object clock

Draw the mirror clock face here

(1) 6:15 (2) 5:15 (3) 5:45 (4) 6:05

7. A clock's mirror image shows 2:10. What was the actual time on the clock?

- (1) 2:10 (2) 10:50 (3) 9:40 (4) 9:50

8. A water image is formed by reflection in a surface that is:

- (1) Horizontal (2) Vertical (3) Diagonal (4) Curved

9. A right-angled triangle has its right angle in the bottom-left corner. Where does the right angle appear in the mirror image?

- (1) Top-left corner (2) Top-right corner (3) Bottom-right corner (4) Bottom-left corner, unchanged

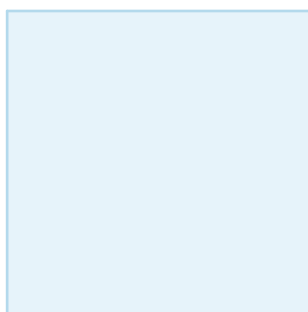
10. Where does the right angle of the same triangle appear in its water image?

- (1) Bottom-right corner (2) Top-left corner (3) Bottom-left corner, unchanged (4) Top-right corner

11. What is the mirror image of the word BOX, read left to right?

- (1) XOB, unchanged (2) BOX, unchanged (3) XOB, with the B flipped (4) XOB, with the X flipped

12. A clock shows 9:05. What does its mirror image show? Sketch the mirror clock in the box.



Object clock

Draw the mirror clock face here

- (1) 3:05 (2) 2:55 (3) 2:05 (4) 3:55

13. Reflecting an object in a mirror twice, in the same mirror position, restores:

- (1) A rotated version of the object (2) The original object, for any shape (3) The original only if the shape was symmetric (4) A water image of the object

14. Which of these numbers reads as the same sequence of self-mirroring digits, forwards and backwards?

- (1) 609 (2) 168 (3) 101 (4) 258

15. Which set correctly lists only self-mirroring capital letters?

- (1) A, B, C, D (2) A, H, I, M (3) E, F, G, J (4) N, P, Q, R

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