

Primary 3 · Mathematics · Maths General Ability II

Figure reasoning 2

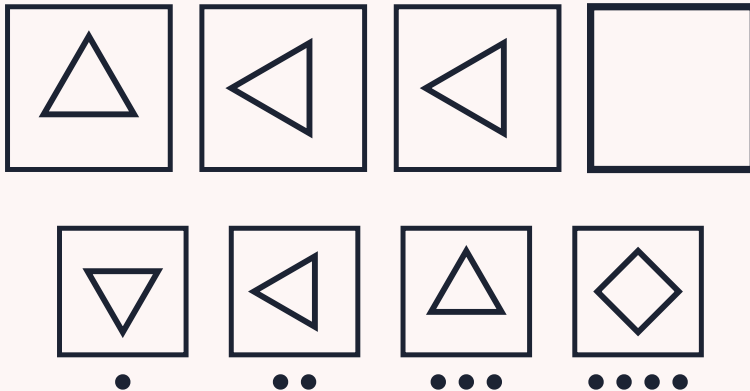
Time **30 min** Marks **8** Questions **8**

Answers are printed in red after each question, with the working where it matters. Marks in brackets show how a marker would split them.

Figure reasoning

Questions 1 to 8 carry 1 mark each.

- 1 A shape is turned one quarter anti-clockwise. The second pair starts with the triangle already pointing left. Which figure completes it? [1]
Write the number of the correct figure.



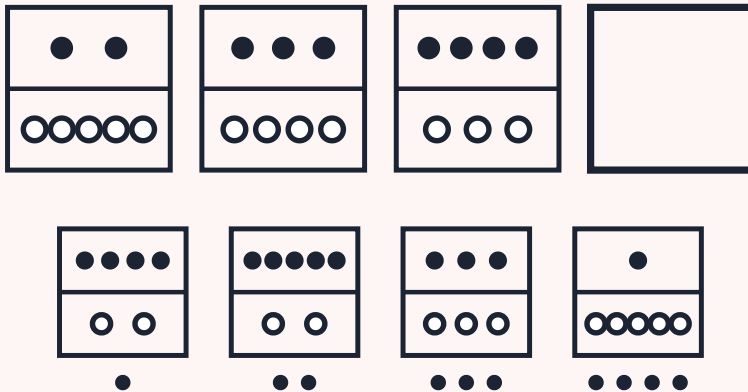
1. A quarter turn anti-clockwise moves the point from the top to the left.
2. The second shape already points left, so one more quarter turn points it down.
That is option (1).

ANSWER **1**

- 2 The black dots increase by one and the white dots decrease by one. Which figure comes next?

[1]

Write the number of the correct figure.



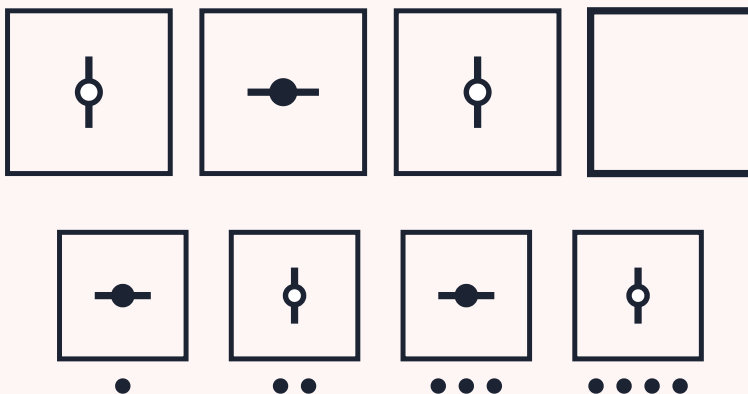
1. Black dots go 2, 3, 4, so next is 5.
2. White dots go 5, 4, 3, so next is 2.
3. That is option (2).

ANSWER 2

- 3 The arrow turns one quarter anti-clockwise and the dot alternates. Which figure comes next?

[1]

Write the number of the correct figure.

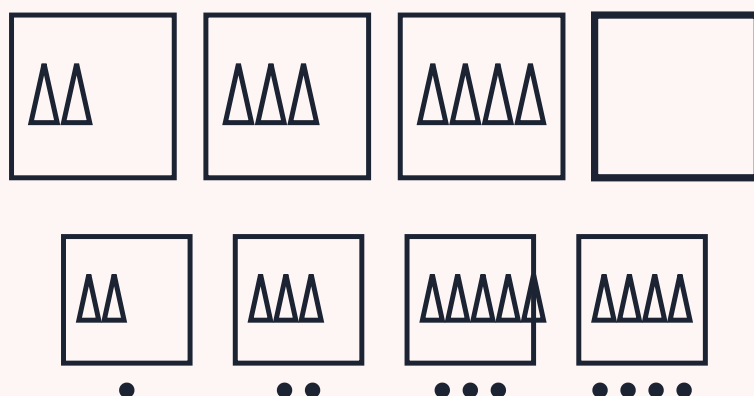


1. The arrow points up, then left, then down, so next it points right.
2. The dot goes empty, filled, empty, so next it is filled.
3. That is option (1).

ANSWER 1

- 4 One more triangle appears at each step. Which figure comes next?
Write the number of the correct figure.

[1]



1. The counts are 2, 3, 4.
2. The next figure has 5 triangles, which is option (3).

ANSWER 3

- 5 The lines decrease by one each step. Which figure comes next?
Write the number of the correct figure.

[1]

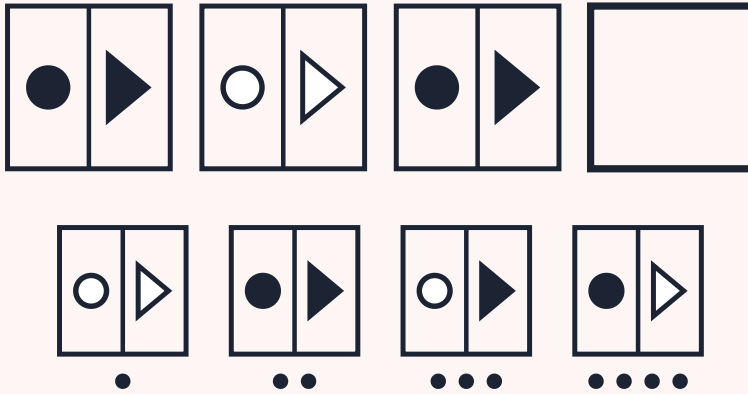


1. The lines go 4, 3, 2, so the next figure has 1 line. That is option (2).

ANSWER 2

- 6 Both shapes change colour together at each step. Which figure comes next?
Write the number of the correct figure.

[1]

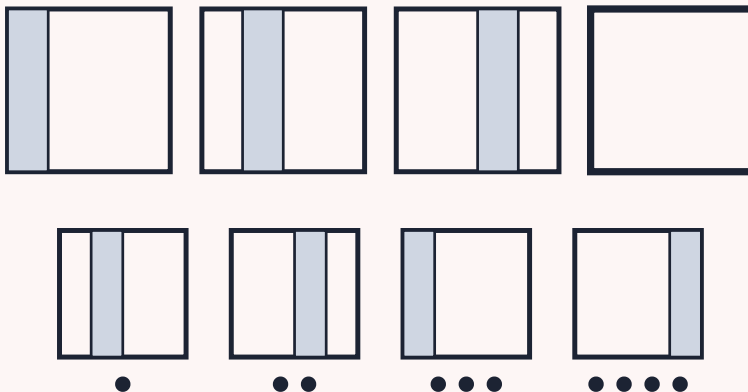


1. Both are black, then both are white, then both are black again.
2. Next both are white, which is option (1).

ANSWER 1

- 7 The pale column moves one place to the right. Which figure comes next?
Write the number of the correct figure.

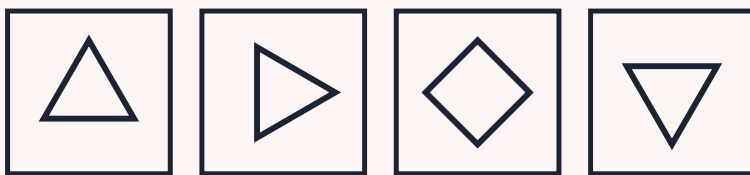
[1]



1. The pale column is in the first place, then the second, then the third.
2. Next it is in the fourth place, which is option (4).

ANSWER 4

- 8 Three figures are turned copies of one shape and one is a different shape. Which is the odd one out? Count them 1 to 4 from left to right. [1]



1. Figures 1, 2 and 4 are triangles turned different ways.
2. Figure 3 is a square, so it is the odd one out.

ANSWER 3

Marking notes

- 1 mark for the correct number. The working names the rule.

END OF PAPER