4.19 Combined and Hidden Shapes: 2-hour Pack

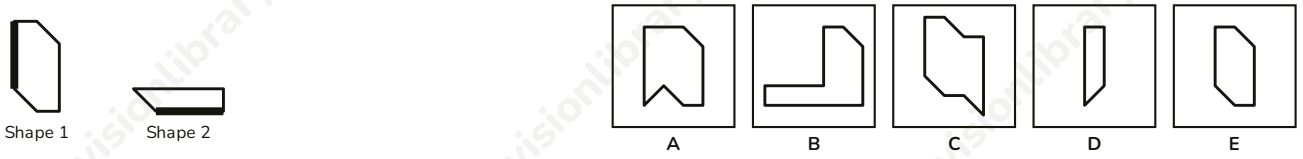
GL ASSESSMENT EP.N13 · Calculators not allowed · about 120 minutes

Total Marks

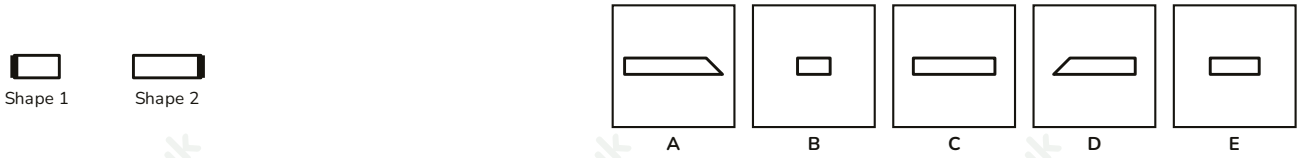
Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

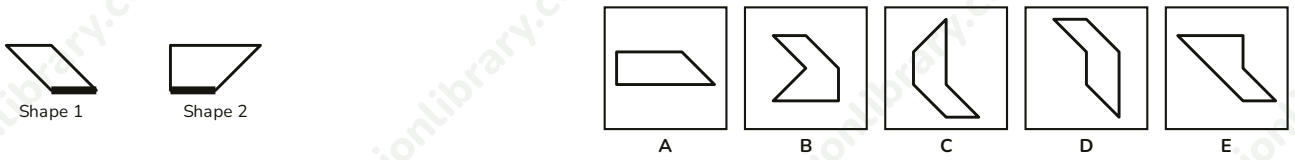
1 Shape 1 and Shape 2 are joined so that the thick edge of Shape 2 lies exactly along the thick edge of Shape 1. Shape 2 may be turned but not flipped over, and the shared edge disappears. Which option, A to E, shows the combined shape, with Shape 1 left where it is?



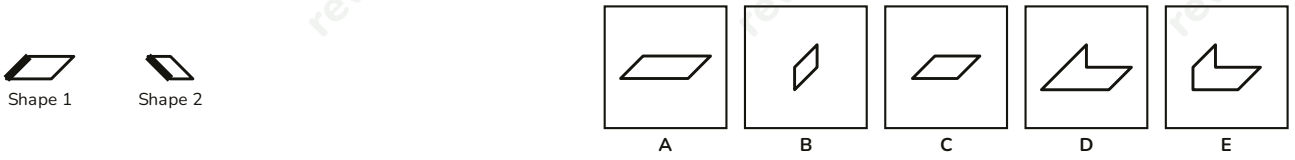
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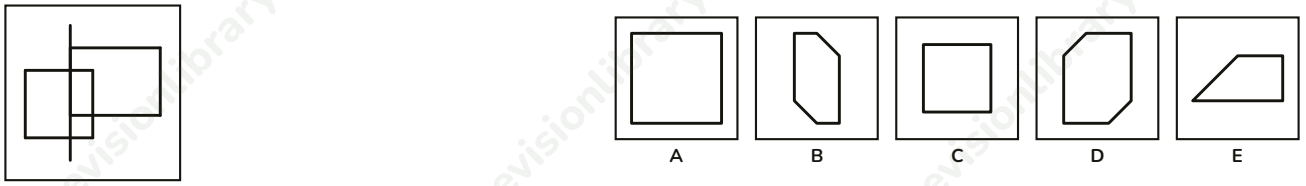
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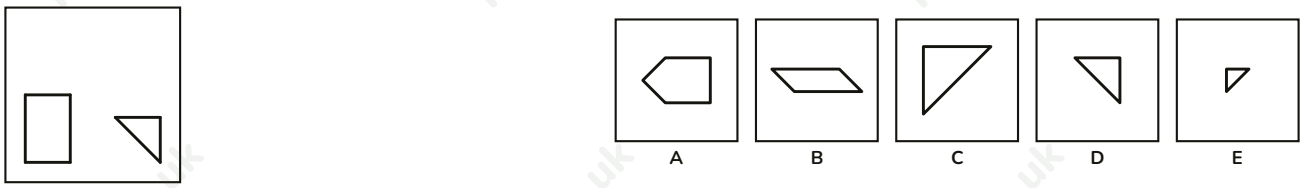
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5 The figure below is made of straight lines only. Which one of the shapes A to E is hidden inside it, the same size and the same way up, with its whole outline traced along lines that are already drawn?

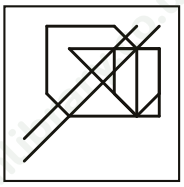


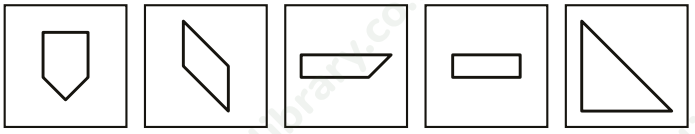
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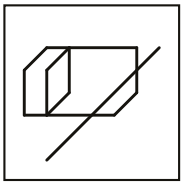
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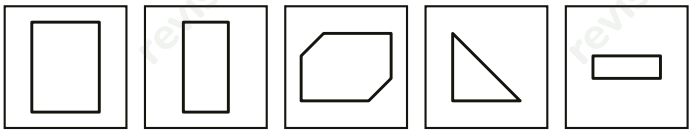
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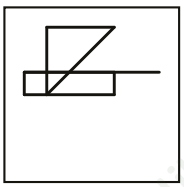


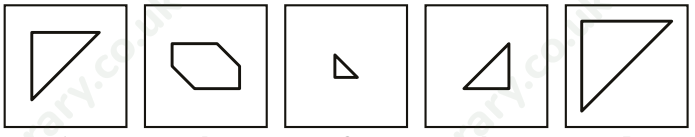
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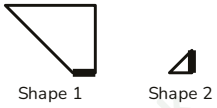


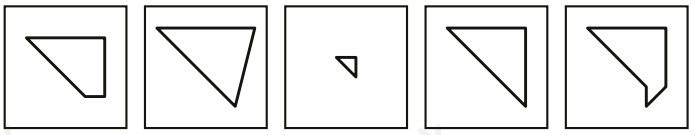
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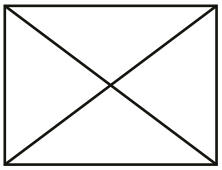


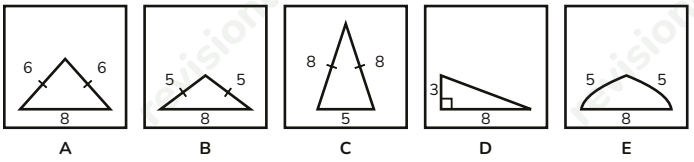
10 Shape 1 and Shape 2 are joined so that the thick edge of Shape 2 lies exactly along the thick edge of Shape 1. Shape 2 may be turned but not flipped over, and the shared edge disappears. Which option, A to E, shows the combined shape, with Shape 1 left where it is?



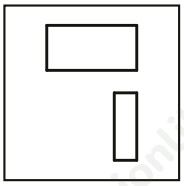


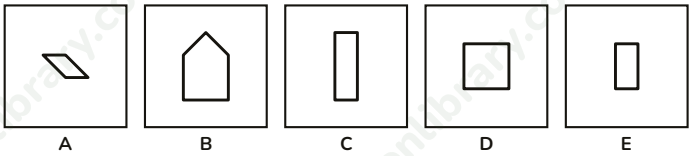
11 The figure below is made of straight lines only. Which one of the shapes A to E is hidden inside it - its exact outline can be traced using lines already drawn, with none added or altered?





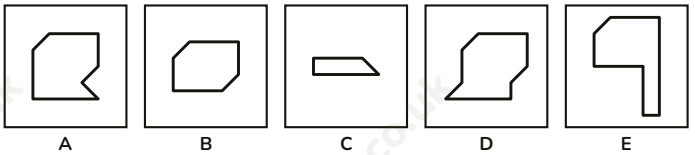
12 The figure below is made of straight lines only. Which one of the shapes A to E is hidden inside it, the same size and the same way up, with its whole outline traced along lines that are already drawn?





13 Shape 1 and Shape 2 are joined so that the thick edge of Shape 2 lies exactly along the thick edge of Shape 1. Shape 2 may be turned but not flipped over, and the shared edge disappears. Which option, A to E, shows the combined shape, with Shape 1 left where it is?

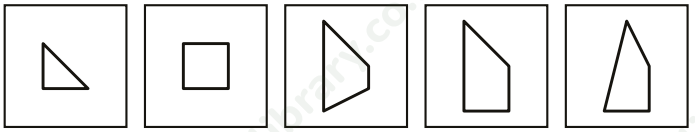




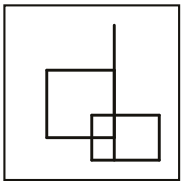
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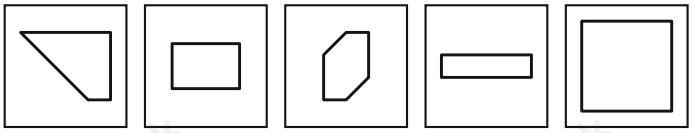
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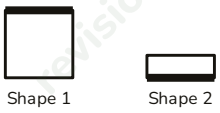


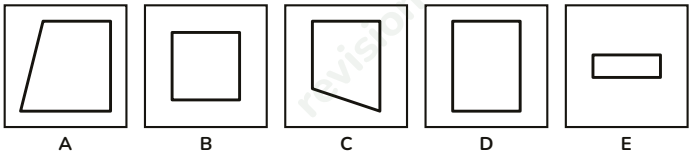
15 The figure below is made of straight lines only. Which one of the shapes A to E is hidden inside it, the same size and the same way up, with its whole outline traced along lines that are already drawn?



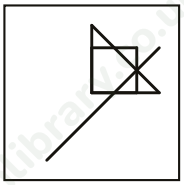


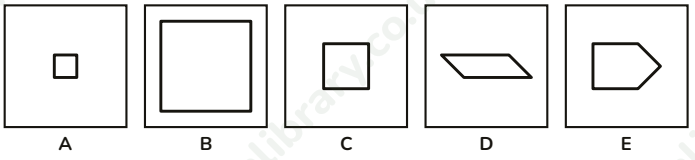
16 Shape 1 and Shape 2 are joined so that the thick edge of Shape 2 lies exactly along the thick edge of Shape 1. Shape 2 may be turned but not flipped over, and the shared edge disappears. Which option, A to E, shows the combined shape, with Shape 1 left where it is?



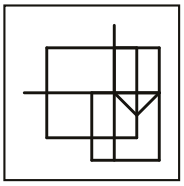


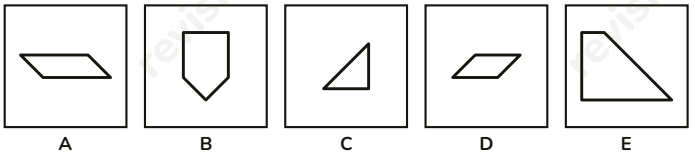
17 The figure below is made of straight lines only. Which one of the shapes A to E is hidden inside it, the same size and the same way up, with its whole outline traced along lines that are already drawn?



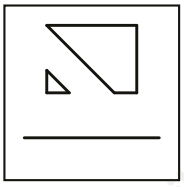


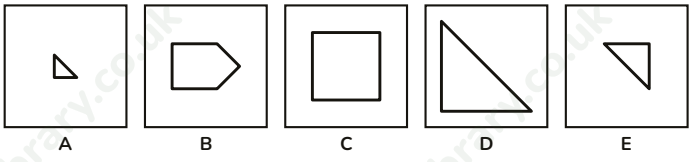
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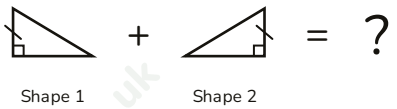


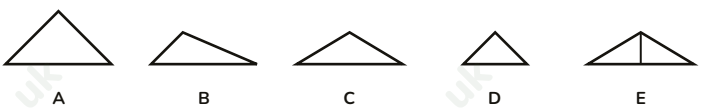
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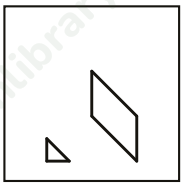
20 Shape 1 and Shape 2 (two congruent right-angled triangles) below are joined so that the marked edge of Shape 2 lies exactly along the marked edge of Shape 1 (the shared edge is erased, and any newly-collinear edges merge into a single straight line). Which option, A to E, shows the resulting combined shape?

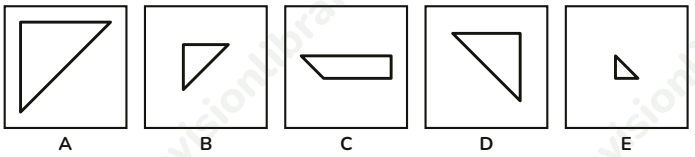




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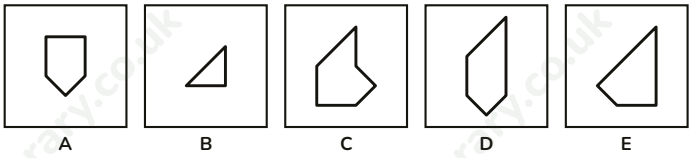
21 The figure below is made of straight lines only. Which one of the shapes A to E is hidden inside it, the same size and the same way up, with its whole outline traced along lines that are already drawn?



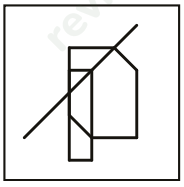


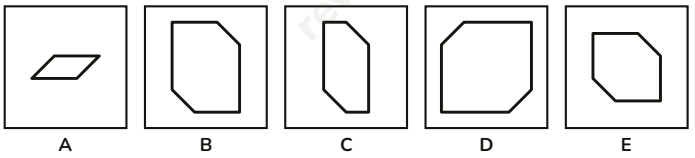
22 Shape 1 and Shape 2 are joined so that the thick edge of Shape 2 lies exactly along the thick edge of Shape 1. Shape 2 may be turned but not flipped over, and the shared edge disappears. Which option, A to E, shows the combined shape, with Shape 1 left where it is?



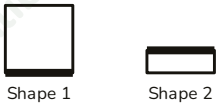


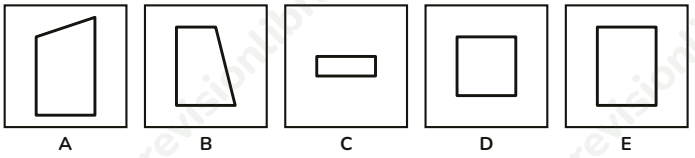
23 The figure below is made of straight lines only. Which one of the shapes A to E is hidden inside it, the same size and the same way up, with its whole outline traced along lines that are already drawn?





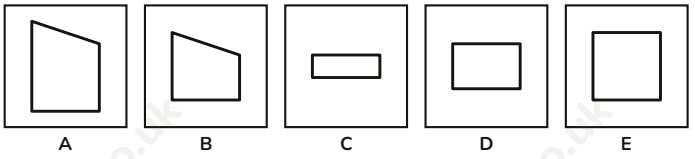
24 Shape 1 and Shape 2 are joined so that the thick edge of Shape 2 lies exactly along the thick edge of Shape 1. Shape 2 may be turned but not flipped over, and the shared edge disappears. Which option, A to E, shows the combined shape, with Shape 1 left where it is?



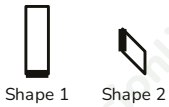


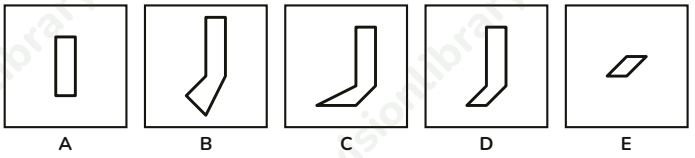
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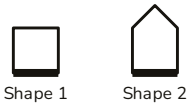


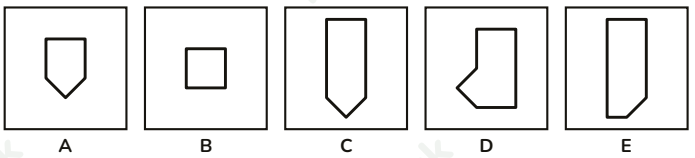
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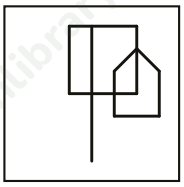
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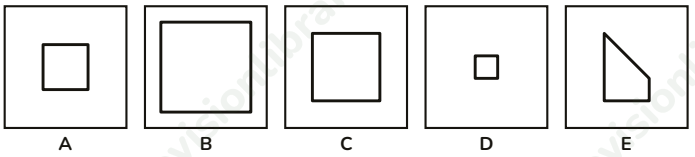




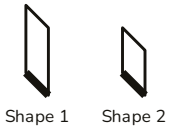
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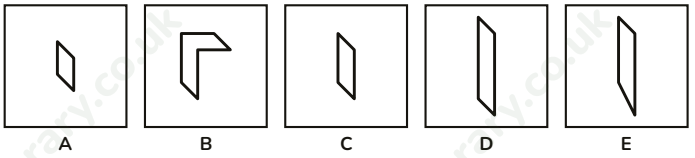
28 The figure below is made of straight lines only. Which one of the shapes A to E is hidden inside it, the same size and the same way up, with its whole outline traced along lines that are already drawn?



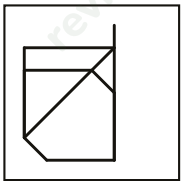


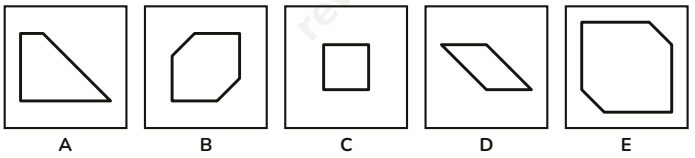
29 Shape 1 and Shape 2 are joined so that the thick edge of Shape 2 lies exactly along the thick edge of Shape 1. Shape 2 may be turned but not flipped over, and the shared edge disappears. Which option, A to E, shows the combined shape, with Shape 1 left where it is?



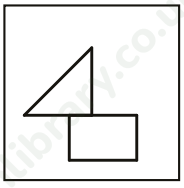


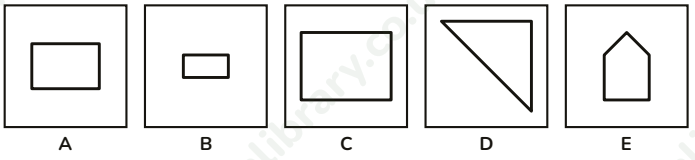
30 The figure below is made of straight lines only. Which one of the shapes A to E is hidden inside it, the same size and the same way up, with its whole outline traced along lines that are already drawn?



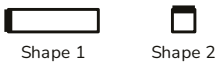


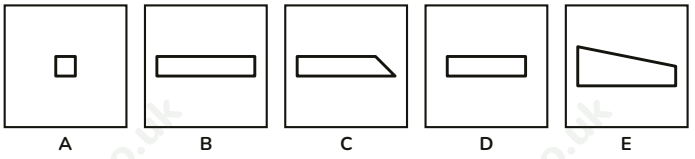
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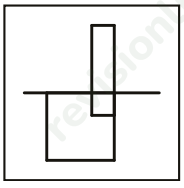


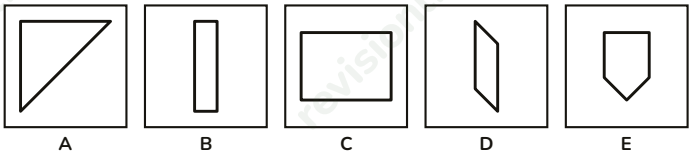
32 Shape 1 and Shape 2 are joined so that the thick edge of Shape 2 lies exactly along the thick edge of Shape 1. Shape 2 may be turned but not flipped over, and the shared edge disappears. Which option, A to E, shows the combined shape, with Shape 1 left where it is?





33 The figure below is made of straight lines only. Which one of the shapes A to E is hidden inside it, the same size and the same way up, with its whole outline traced along lines that are already drawn?

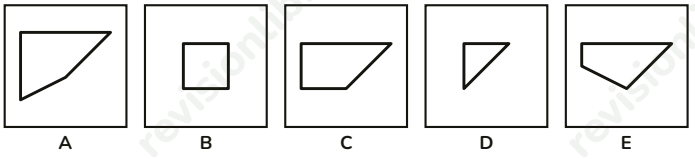




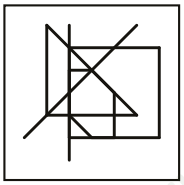
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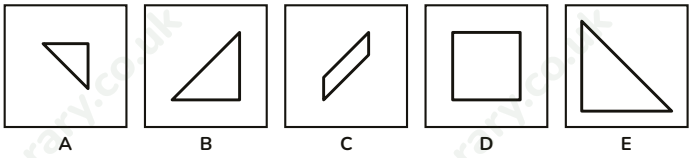
34 Shape 1 and Shape 2 are joined so that the thick edge of Shape 2 lies exactly along the thick edge of Shape 1. Shape 2 may be turned but not flipped over, and the shared edge disappears. Which option, A to E, shows the combined shape, with Shape 1 left where it is?



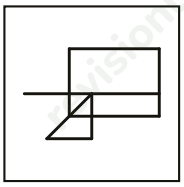


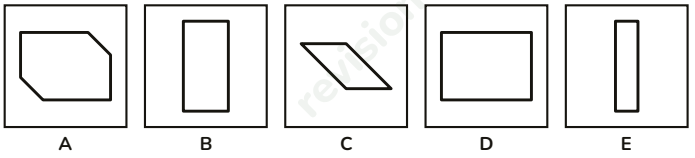
35 The figure below is made of straight lines only. Which one of the shapes A to E is hidden inside it, the same size and the same way up, with its whole outline traced along lines that are already drawn?



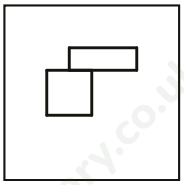


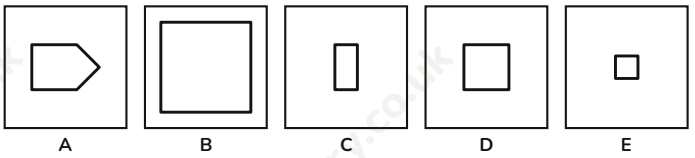
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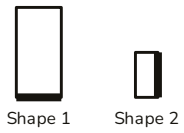


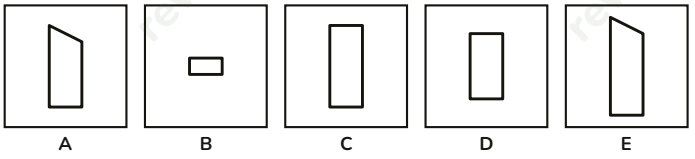
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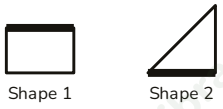


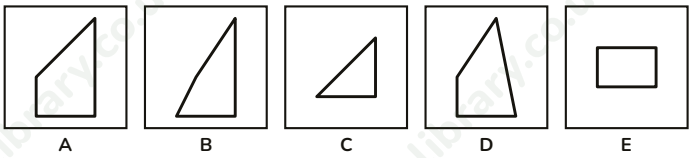
38 Shape 1 and Shape 2 are joined so that the thick edge of Shape 2 lies exactly along the thick edge of Shape 1. Shape 2 may be turned but not flipped over, and the shared edge disappears. Which option, A to E, shows the combined shape, with Shape 1 left where it is?





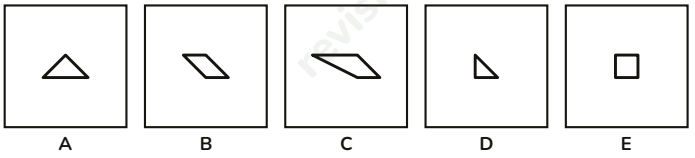
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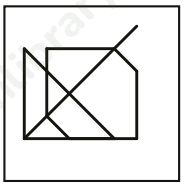
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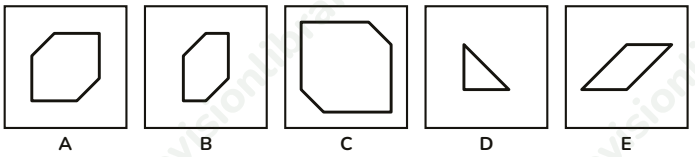




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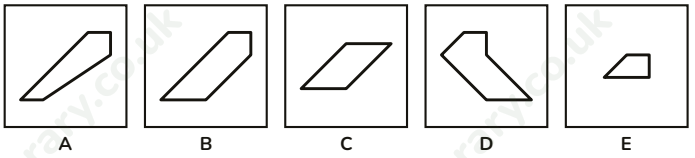
41 The figure below is made of straight lines only. Which one of the shapes A to E is hidden inside it, the same size and the same way up, with its whole outline traced along lines that are already drawn?



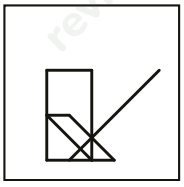


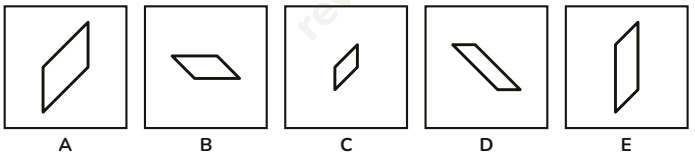
42 Shape 1 and Shape 2 are joined so that the thick edge of Shape 2 lies exactly along the thick edge of Shape 1. Shape 2 may be turned but not flipped over, and the shared edge disappears. Which option, A to E, shows the combined shape, with Shape 1 left where it is?





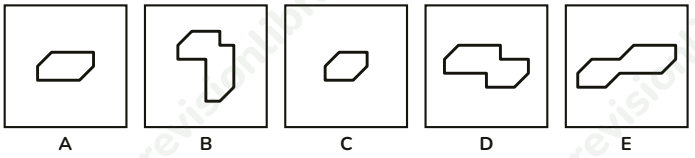
43 The figure below is made of straight lines only. Which one of the shapes A to E is hidden inside it, the same size and the same way up, with its whole outline traced along lines that are already drawn?





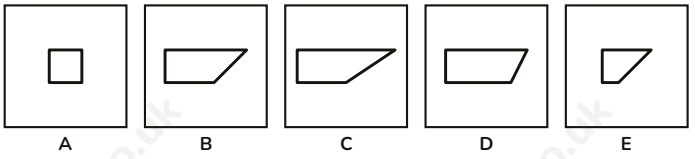
44 Shape 1 and Shape 2 are joined so that the thick edge of Shape 2 lies exactly along the thick edge of Shape 1. Shape 2 may be turned but not flipped over, and the shared edge disappears. Which option, A to E, shows the combined shape, with Shape 1 left where it is?



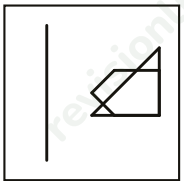


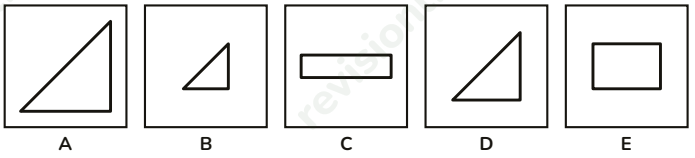
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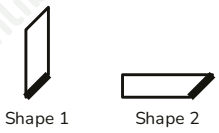
46 The figure below is made of straight lines only. Which one of the shapes A to E is hidden inside it, the same size and the same way up, with its whole outline traced along lines that are already drawn?

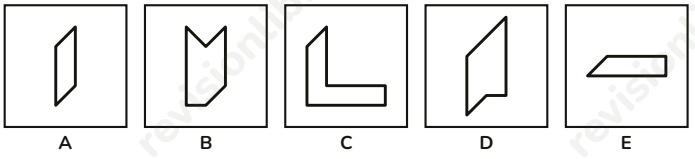




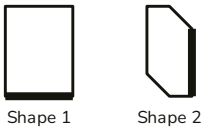
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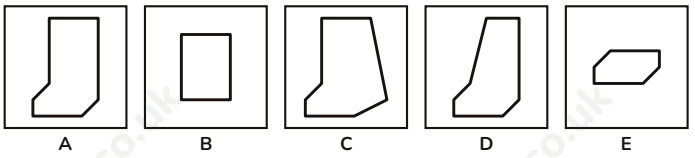
47 Shape 1 and Shape 2 are joined so that the thick edge of Shape 2 lies exactly along the thick edge of Shape 1. Shape 2 may be turned but not flipped over, and the shared edge disappears. Which option, A to E, shows the combined shape, with Shape 1 left where it is?



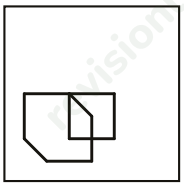


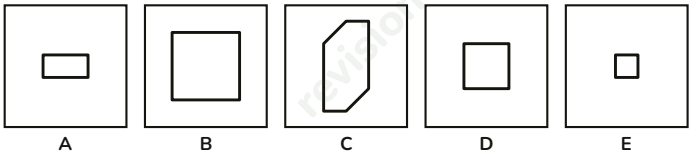
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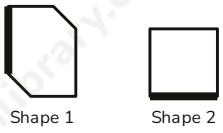


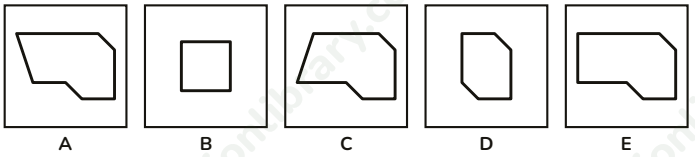
49 The figure below is made of straight lines only. Which one of the shapes A to E is hidden inside it, the same size and the same way up, with its whole outline traced along lines that are already drawn?



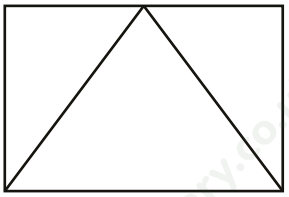


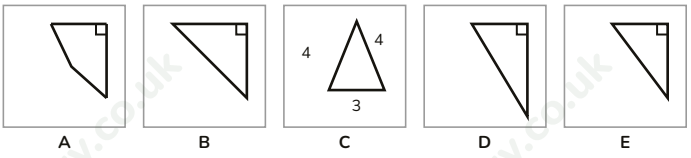
50 Shape 1 and Shape 2 are joined so that the thick edge of Shape 2 lies exactly along the thick edge of Shape 1. Shape 2 may be turned but not flipped over, and the shared edge disappears. Which option, A to E, shows the combined shape, with Shape 1 left where it is?



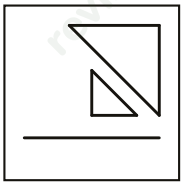


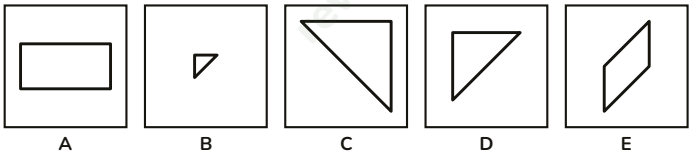
51 The figure below is made of straight lines only. Which one of the shapes A to E is hidden inside it - its exact outline can be traced using lines already drawn, with none added or altered?



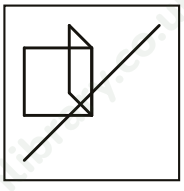


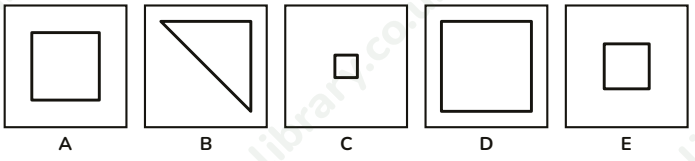
52 The figure below is made of straight lines only. Which one of the shapes A to E is hidden inside it, the same size and the same way up, with its whole outline traced along lines that are already drawn?





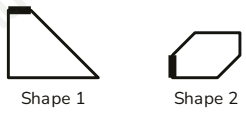
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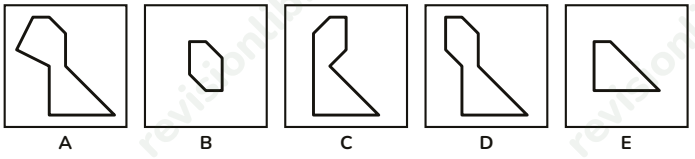




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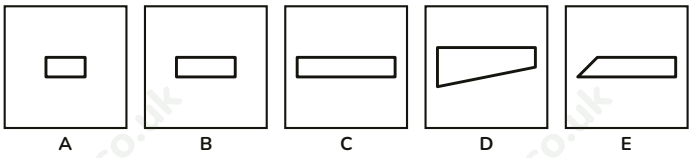
54 Shape 1 and Shape 2 are joined so that the thick edge of Shape 2 lies exactly along the thick edge of Shape 1. Shape 2 may be turned but not flipped over, and the shared edge disappears. Which option, A to E, shows the combined shape, with Shape 1 left where it is?





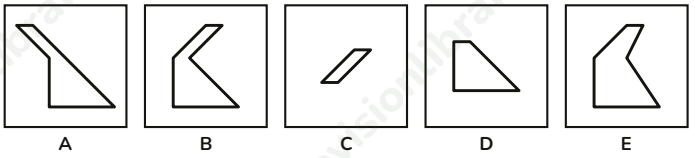
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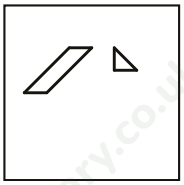


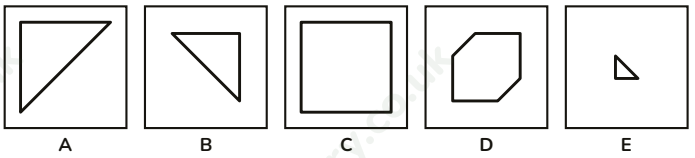
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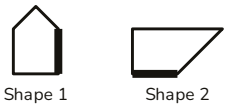


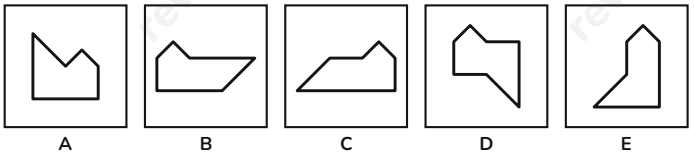
57 The figure below is made of straight lines only. Which one of the shapes A to E is hidden inside it, the same size and the same way up, with its whole outline traced along lines that are already drawn?



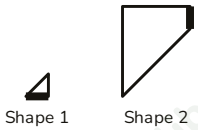


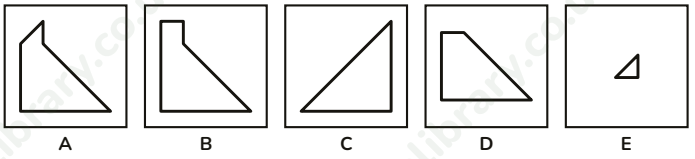
58 Shape 1 and Shape 2 are joined so that the thick edge of Shape 2 lies exactly along the thick edge of Shape 1. Shape 2 may be turned but not flipped over, and the shared edge disappears. Which option, A to E, shows the combined shape, with Shape 1 left where it is?



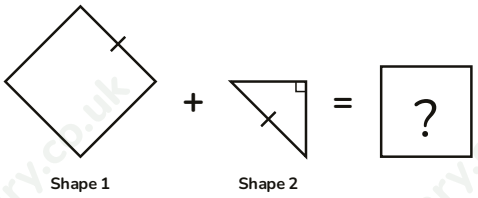


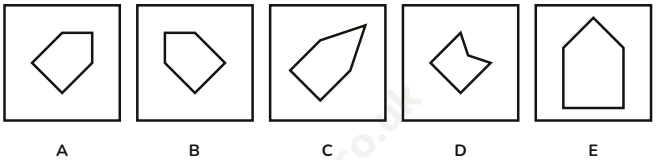
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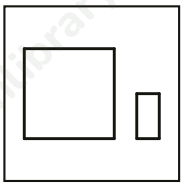
60 Shape 1 and Shape 2 below are joined so that the marked edge of Shape 2 lies exactly along the marked edge of Shape 1 (the shared edge is erased). Which option, A to E, shows the resulting combined shape?

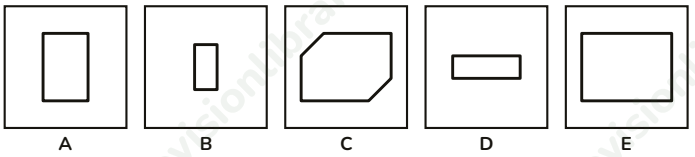




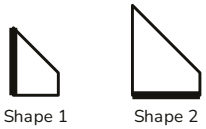
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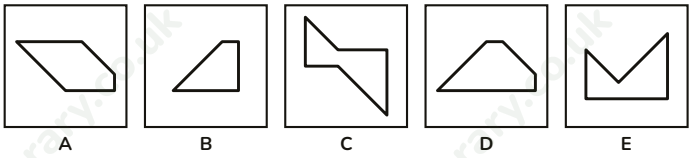
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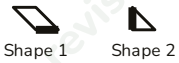


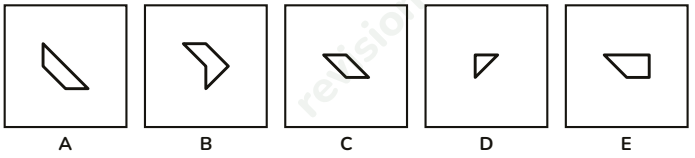
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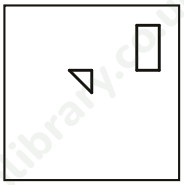


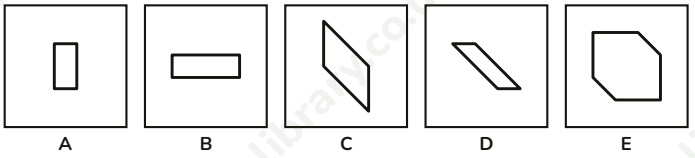
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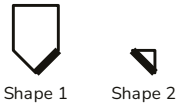


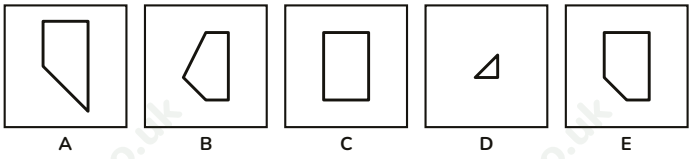
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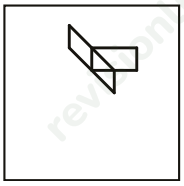


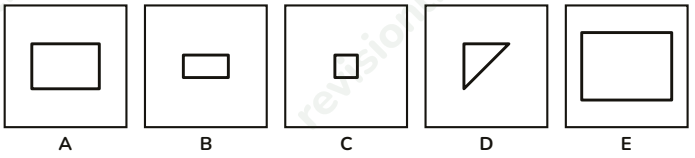
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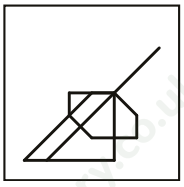


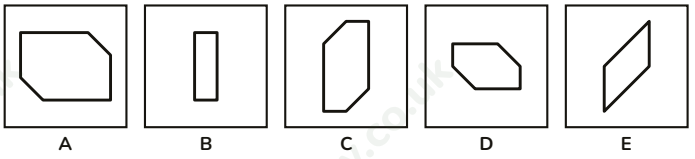
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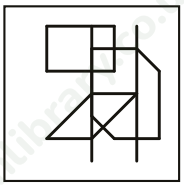
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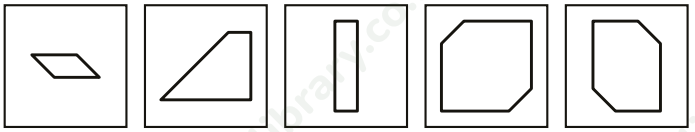




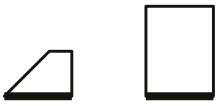
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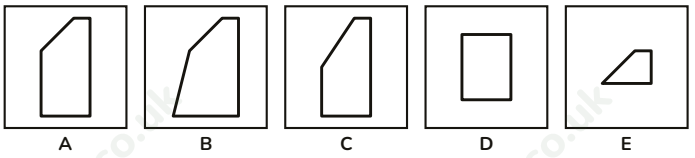
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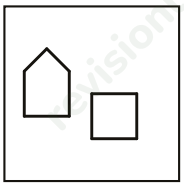


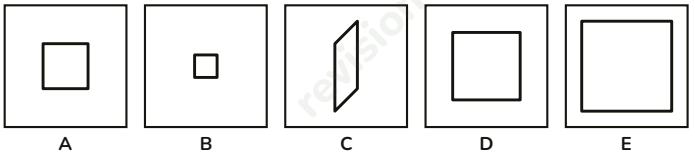
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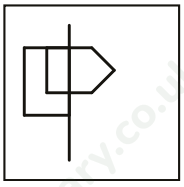


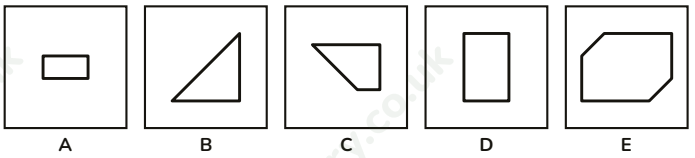
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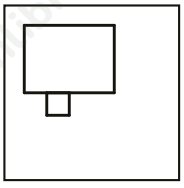


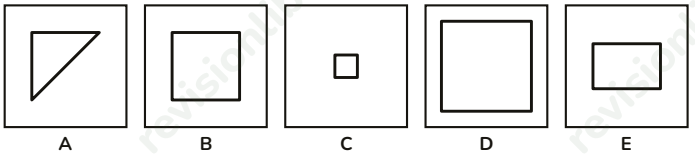
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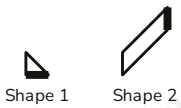


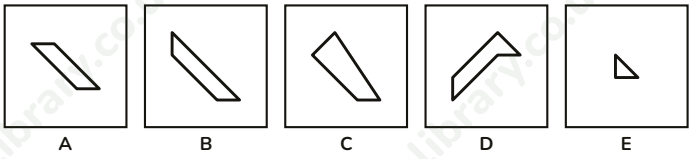
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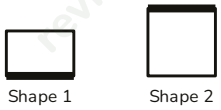


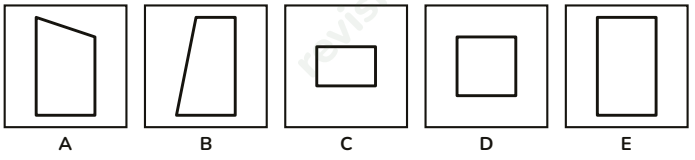
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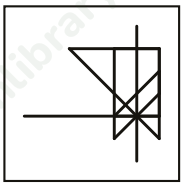
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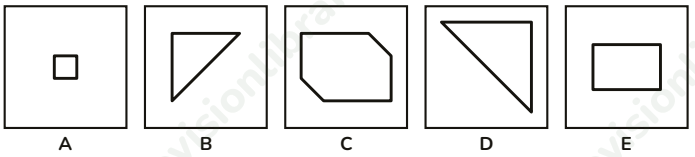




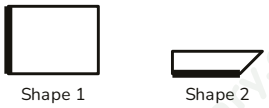
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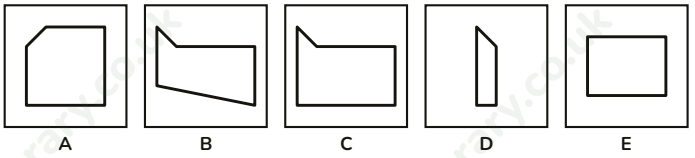
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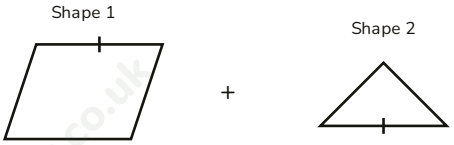


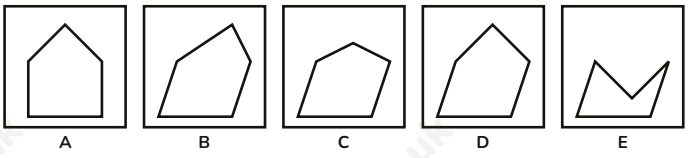
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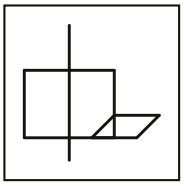


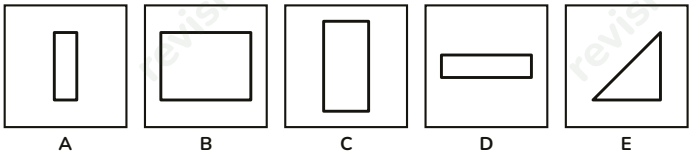
77 Shape 1 and Shape 2 below are joined so that the marked edge of Shape 2 lies exactly along the marked edge of Shape 1 (the shared edge is erased). Which option, A to E, shows the resulting combined shape?



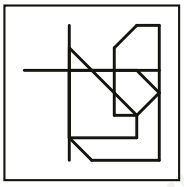


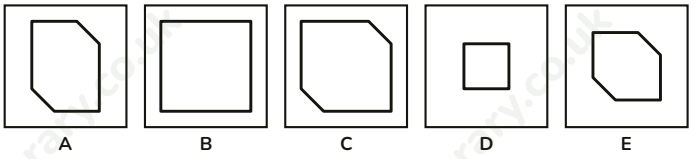
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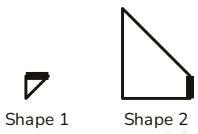


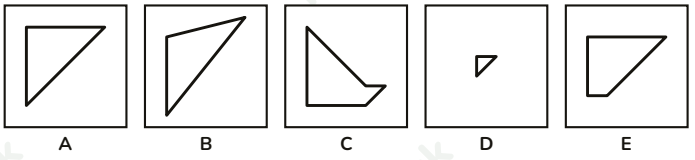
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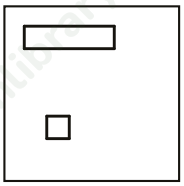
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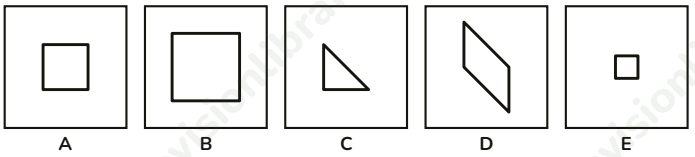




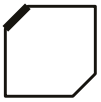
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Shape 1


Shape 2



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Mark scheme · 4.19 Combined and Hidden Shapes: 2-hour Pack

Question 1

selects option A: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: A) A seven-sided shape with 7 corners at (1, 1), (2, 0), (3, 0), (3, 3), (2, 4), (0, 4), (0, 0), measured in grid units from its lower-left corner

Question 2

selects option C: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: C) A four-sided shape with 4 corners at (5, 0), (5, 1), (0, 1), (0, 0), measured in grid units from its lower-left corner

Question 3

selects option B: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: B) A six-sided shape with 6 corners at (4, 2), (2, 4), (0, 4), (2, 2), (0, 0), (4, 0), measured in grid units from its lower-left corner

Question 4

selects option E: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: E) A six-sided shape with 6 corners at (0, 0), (2, 0), (3, 1), (1, 1), (1, 2), (0, 1), measured in grid units from its lower-left corner

Question 5

selects option C: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: C) A four-sided shape with 4 corners at (3, 3), (0, 3), (0, 0), (3, 0), measured in grid units from its lower-left corner

Question 6

selects option D: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: D) A triangle with 3 corners at (0, 2), (2, 0), (2, 2), measured in grid units from its lower-left corner

Question 7

selects option A: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: A) A five-sided shape with 5 corners at (0, 1), (1, 0), (2, 1), (2, 3), (0, 3), measured in grid units from its lower-left corner

Question 8

selects option C: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: C) A six-sided shape with 6 corners at (0, 2), (0, 0), (3, 0), (4, 1), (4, 3), (1, 3), measured in grid units from its lower-left corner

Question 9

selects option A: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: A) A triangle with 3 corners at (0, 0), (3, 3), (0, 3), measured in grid units from its lower-left corner

Question 10

selects option D: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: D) A triangle with 3 corners at (4, 4), (0, 4), (4, 0), measured in grid units from its lower-left corner

Question 11

selects the isosceles triangle with base 8, equal sides 5, apex at the rectangle's centre (option B), cao **B1**

Answer: B

Question 12

selects option C: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: C) A four-sided shape with 4 corners at (1, 3), (0, 3), (0, 0), (1, 0), measured in grid units from its lower-left corner

Question 13

selects option A: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: A) A seven-sided shape with 7 corners at (3, 1), (4, 2), (4, 4), (1, 4), (0, 3), (0, 0), (4, 0), measured in grid units from its lower-left corner

Question 14

selects option D: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: D) A four-sided shape with 4 corners at (0, 0), (2, 0), (2, 2), (0, 4), measured in grid units from its lower-left corner

Question 15

selects option B: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: B) A four-sided shape with 4 corners at (0, 0), (3, 0), (3, 2), (0, 2), measured in grid units from its lower-left corner

Question 16

selects option D: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: D) A four-sided shape with 4 corners at (0, 0), (3, 0), (3, 4), (0, 4), measured in grid units from its lower-left corner

Question 17

selects option C: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: C) A four-sided shape with 4 corners at (2, 0), (2, 2), (0, 2), (0, 0), measured in grid units from its lower-left corner

Question 18

selects option B: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: B) A five-sided shape with 5 corners at (2, 3), (0, 3), (0, 1), (1, 0), (2, 1), measured in grid units from its lower-left corner

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Question 19

selects option A: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: A) A triangle with 3 corners at (1, 0), (0, 1), (0, 0), measured in grid units from its lower-left corner

Question 20

selects the isosceles triangle with base 10, apex centred at height 3 (option C), cao **B1**

Answer: C

Question 21

selects option E: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: E) A triangle with 3 corners at (1, 0), (0, 1), (0, 0), measured in grid units from its lower-left corner

Question 22

selects option D: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: D) A five-sided shape with 5 corners at (2, 5), (0, 3), (0, 1), (1, 0), (2, 1), measured in grid units from its lower-left corner

Question 23

selects option B: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: B) A six-sided shape with 6 corners at (2, 4), (0, 4), (0, 1), (1, 0), (3, 0), (3, 3), measured in grid units from its lower-left corner

Question 24

selects option E: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: E) A four-sided shape with 4 corners at (3, 4), (0, 4), (0, 0), (3, 0), measured in grid units from its lower-left corner

Question 25

selects option E: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: E) A four-sided shape with 4 corners at (0, 0), (3, 0), (3, 3), (0, 3), measured in grid units from its lower-left corner

Question 26

selects option D: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: D) A six-sided shape with 6 corners at (2, 1), (2, 4), (1, 4), (1, 1), (0, 0), (1, 0), measured in grid units from its lower-left corner

Question 27

selects option C: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: C) A five-sided shape with 5 corners at (2, 5), (0, 5), (0, 1), (1, 0), (2, 1), measured in grid units from its lower-left corner

Question 28

selects option C: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: C) A four-sided shape with 4 corners at (0, 3), (0, 0), (3, 0), (3, 3), measured in grid units from its lower-left corner

Question 29

selects option D: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: D) A four-sided shape with 4 corners at (1, 5), (0, 6), (0, 1), (1, 0), measured in grid units from its lower-left corner

Question 30

selects option E: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: E) A six-sided shape with 6 corners at (1, 0), (4, 0), (4, 3), (3, 4), (0, 4), (0, 1), measured in grid units from its lower-left corner

Question 31

selects option A: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: A) A four-sided shape with 4 corners at (0, 0), (3, 0), (3, 2), (0, 2), measured in grid units from its lower-left corner

Question 32

selects option B: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: B) A four-sided shape with 4 corners at (5, 0), (5, 1), (0, 1), (0, 0), measured in grid units from its lower-left corner

Question 33

selects option B: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: B) A four-sided shape with 4 corners at (0, 0), (1, 0), (1, 4), (0, 4), measured in grid units from its lower-left corner

Question 34

selects option C: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: C) A four-sided shape with 4 corners at (0, 2), (0, 0), (2, 0), (4, 2), measured in grid units from its lower-left corner

Question 35

selects option E: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: E) A triangle with 3 corners at (0, 0), (4, 0), (0, 4), measured in grid units from its lower-left corner

Question 36

selects option D: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: D) A four-sided shape with 4 corners at (0, 3), (0, 0), (4, 0), (4, 3), measured in grid units from its lower-left corner

Question 37

selects option D: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: D) A four-sided shape with 4 corners at (0, 0), (2, 0), (2, 2), (0, 2), measured in grid units from its lower-left corner

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Question 38

selects option C: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: C) A four-sided shape with 4 corners at (2, 5), (0, 5), (0, 0), (2, 0), measured in grid units from its lower-left corner

Question 39

selects option A: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: A) A four-sided shape with 4 corners at (0, 2), (0, 0), (3, 0), (3, 5), measured in grid units from its lower-left corner

Question 40

selects option B: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: B) A four-sided shape with 4 corners at (1, 0), (2, 0), (1, 1), (0, 1), measured in grid units from its lower-left corner

Question 41

selects option C: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: C) A six-sided shape with 6 corners at (1, 0), (4, 0), (4, 3), (3, 4), (0, 4), (0, 1), measured in grid units from its lower-left corner

Question 42

selects option B: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: B) A five-sided shape with 5 corners at (4, 2), (4, 3), (3, 3), (0, 0), (2, 0), measured in grid units from its lower-left corner

Question 43

selects option D: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: D) A four-sided shape with 4 corners at (2, 0), (3, 0), (1, 2), (0, 2), measured in grid units from its lower-left corner

Question 44

selects option E: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: E) A 10-sided shape with 10 corners at (3, 2), (1, 2), (0, 1), (0, 0), (2, 0), (3, 1), (6, 1), (7, 2), (7, 3), (4, 3), measured in grid units from its lower-left corner

Question 45

selects option B: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: B) A four-sided shape with 4 corners at (3, 0), (5, 2), (0, 2), (0, 0), measured in grid units from its lower-left corner

Question 46

selects option D: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: D) A triangle with 3 corners at (3, 3), (0, 0), (3, 0), measured in grid units from its lower-left corner

Question 47

selects option C: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: C) A six-sided shape with 6 corners at (1, 1), (1, 4), (0, 3), (0, 0), (4, 0), (4, 1), measured in grid units from its lower-left corner

Question 48

selects option A: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: A) A seven-sided shape with 7 corners at (4, 6), (1, 6), (1, 2), (0, 1), (0, 0), (3, 0), (4, 1), measured in grid units from its lower-left corner

Question 49

selects option D: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: D) A four-sided shape with 4 corners at (0, 2), (0, 0), (2, 0), (2, 2), measured in grid units from its lower-left corner

Question 50

selects option E: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: E) A seven-sided shape with 7 corners at (3, 1), (4, 0), (6, 0), (6, 3), (5, 4), (0, 4), (0, 1), measured in grid units from its lower-left corner

Question 51

selects the right-angled triangle with legs 3 (top) and 4 (right side), right angle at the top-right corner (option E), cao **B1**

Answer: E

Question 52

selects option C: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: C) A triangle with 3 corners at (4, 4), (0, 4), (4, 0), measured in grid units from its lower-left corner

Question 53

selects option A: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: A) A four-sided shape with 4 corners at (3, 3), (0, 3), (0, 0), (3, 0), measured in grid units from its lower-left corner

Question 54

selects option D: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: D) An eight-sided shape with 8 corners at (1, 3), (1, 0), (5, 0), (2, 3), (2, 5), (1, 6), (0, 6), (0, 4), measured in grid units from its lower-left corner

Question 55

selects option C: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: C) A four-sided shape with 4 corners at (0, 1), (0, 0), (5, 0), (5, 1), measured in grid units from its lower-left corner

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Question 56

selects option B: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: B) A six-sided shape with 6 corners at (0, 3), (0, 0), (4, 0), (1, 3), (3, 5), (2, 5), measured in grid units from its lower-left corner

Question 57

selects option E: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: E) A triangle with 3 corners at (1, 0), (0, 1), (0, 0), measured in grid units from its lower-left corner

Question 58

selects option D: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: D) A seven-sided shape with 7 corners at (2, 4), (1, 5), (0, 4), (0, 2), (2, 2), (4, 0), (4, 4), measured in grid units from its lower-left corner

Question 59

selects option A: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: A) A five-sided shape with 5 corners at (1, 3), (1, 4), (0, 3), (0, 0), (4, 0), measured in grid units from its lower-left corner

Question 60

selects the diamond with the outward bump on the top-right edge, apex at (4,4) (option A), cao **B1**

Answer: A

Question 61

selects option B: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: B) A four-sided shape with 4 corners at (1, 2), (0, 2), (0, 0), (1, 0), measured in grid units from its lower-left corner

Question 62

selects option D: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: D) A five-sided shape with 5 corners at (6, 0), (6, 1), (4, 3), (3, 3), (0, 0), measured in grid units from its lower-left corner

Question 63

selects option B: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: B) A five-sided shape with 5 corners at (2, 1), (1, 2), (0, 2), (1, 1), (1, 0), measured in grid units from its lower-left corner

Question 64

selects option A: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: A) A four-sided shape with 4 corners at (1, 0), (1, 2), (0, 2), (0, 0), measured in grid units from its lower-left corner

Question 65

selects option E: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: E) A five-sided shape with 5 corners at (2, 3), (0, 3), (0, 1), (1, 0), (2, 0), measured in grid units from its lower-left corner

Question 66

selects option B: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: B) A four-sided shape with 4 corners at (0, 0), (2, 0), (2, 1), (0, 1), measured in grid units from its lower-left corner

Question 67

selects option D: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: D) A six-sided shape with 6 corners at (1, 0), (3, 0), (3, 1), (2, 2), (0, 2), (0, 1), measured in grid units from its lower-left corner

Question 68

selects option E: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: E) A six-sided shape with 6 corners at (2, 4), (0, 4), (0, 1), (1, 0), (3, 0), (3, 3), measured in grid units from its lower-left corner

Question 69

selects option A: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: A) A five-sided shape with 5 corners at (3, 6), (2, 6), (0, 4), (0, 0), (3, 0), measured in grid units from its lower-left corner

Question 70

selects option A: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: A) A four-sided shape with 4 corners at (2, 0), (2, 2), (0, 2), (0, 0), measured in grid units from its lower-left corner

Question 71

selects option D: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: D) A four-sided shape with 4 corners at (2, 3), (0, 3), (0, 0), (2, 0), measured in grid units from its lower-left corner

Question 72

selects option C: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: C) A four-sided shape with 4 corners at (0, 0), (1, 0), (1, 1), (0, 1), measured in grid units from its lower-left corner

Question 73

selects option B: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: B) A four-sided shape with 4 corners at (0, 3), (0, 2), (2, 0), (3, 0), measured in grid units from its lower-left corner

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Question 74

selects option E: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: E) A four-sided shape with 4 corners at (3, 5), (0, 5), (0, 0), (3, 0), measured in grid units from its lower-left corner

Question 75

selects option D: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: D) A triangle with 3 corners at (0, 4), (4, 0), (4, 4), measured in grid units from its lower-left corner

Question 76

selects option C: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: C) A five-sided shape with 5 corners at (5, 0), (5, 3), (1, 3), (0, 4), (0, 0), measured in grid units from its lower-left corner

Question 77

selects the pentagon with the roof centred on the slanted top edge, apex at (3,5) (option D), cao **B1**

Answer: D

Question 78

selects option B: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: B) A four-sided shape with 4 corners at (4, 3), (0, 3), (0, 0), (4, 0), measured in grid units from its lower-left corner

Question 79

selects option C: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: C) A six-sided shape with 6 corners at (1, 0), (4, 0), (4, 3), (3, 4), (0, 4), (0, 1), measured in grid units from its lower-left corner

Question 80

selects option A: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: A) A triangle with 3 corners at (0, 0), (4, 4), (0, 4), measured in grid units from its lower-left corner

Question 81

selects option E: every side of this shape lies along a line in the figure, and no other option can be traced (cao) **B1**

Answer: E) A four-sided shape with 4 corners at (1, 1), (0, 1), (0, 0), (1, 0), measured in grid units from its lower-left corner

Question 82

selects option D: the two pieces join along the thick edges and the shared edge is removed, leaving this outline (cao) **B1**

Answer: D) A 9-sided shape with 9 corners at (1, 3), (1, 0), (4, 0), (5, 1), (5, 4), (2, 4), (2, 6), (0, 6), (0, 4), measured in grid units from its lower-left corner

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