# 4.19 Combined and Hidden Shapes: 10-minute Pack

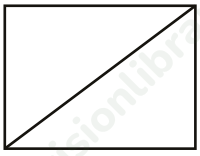
Total Marks

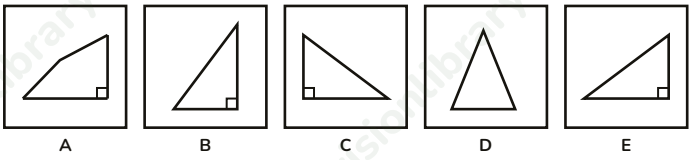
GL ASSESSMENT EP.N13 · Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

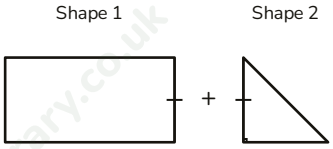
**Answer ALL questions. Show all your working.**

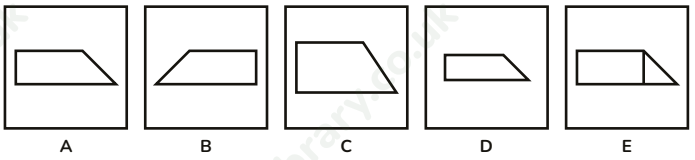
**1** The figure below is made of straight lines only. Which one of the shapes A to E is hidden inside it - that is, its exact outline can be traced using lines that are already drawn, with no lines added, removed or changed?



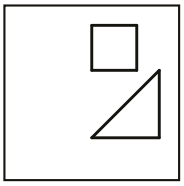


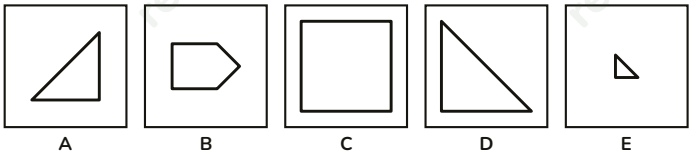

**2** Shape 1 and Shape 2 below are joined so that the marked edge of Shape 2 lies exactly along the marked edge of Shape 1 (the shared edge is erased, and any newly-collinear edges merge into one straight line). Which option, A to E, shows the resulting combined shape?



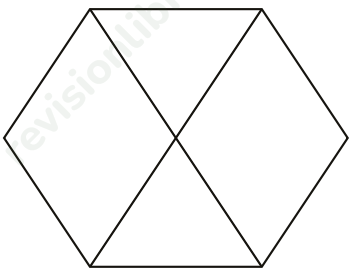



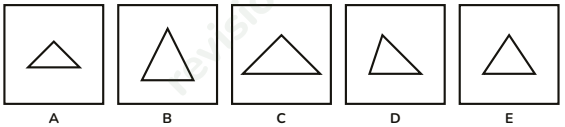

**3** The figure below is made of straight lines only. Which one of the shapes A to E is hidden inside it, the same size and the same way up, with its whole outline traced along lines that are already drawn?






**4** 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?

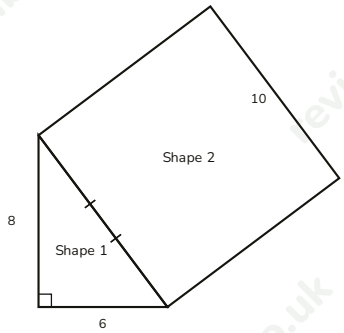


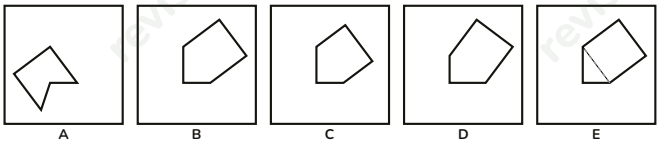




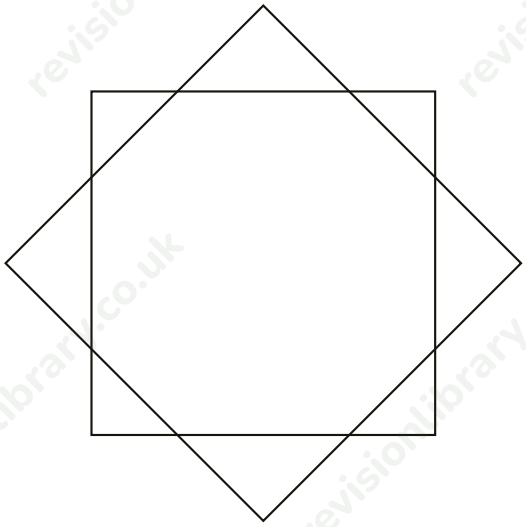
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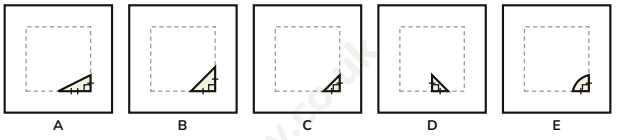
**5** Shape 1 (a right-angled triangle) and Shape 2 (a square) below are joined so that the marked edge of Shape 2 lies exactly along the hypotenuse of Shape 1 (the shared edge is erased). Which option, A to E, shows the resulting combined shape?



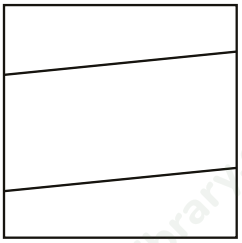



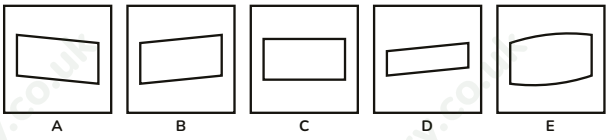

**6** The figure below is made of straight lines only. Which one of the shapes A to E is hidden inside it - its exact outline can be traced using lines already drawn, with none added or altered?






**7**







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# Mark scheme · 4.19 Combined and Hidden Shapes: 10-minute Pack

## Question 1

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

**Answer: E**

## Question 2

selects the trapezoid with bottom 6, top 4, height 2 and no retained internal line (option A), cao **B1**

**Answer: A**

## Question 3

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 (3, 3), (0, 0), (3, 0), measured in grid units from its lower-left corner**

## Question 4

selects the isosceles triangle with base 4 and apex 3 units from the base, centred (option E), cao **B1**

**Answer: E**

## Question 5

selects the pentagon with the correctly oriented 6-8-10 triangle and the outward tilted square of side 10 (option B), cao **B1**

**Answer: B**

## Question 6

selects the corner triangle with legs 2 and 2 and its right angle at an outer corner (option C), cao **B1**

**Answer: C**

## Question 7

selects the parallelogram with 5-unit vertical sides and a gentle upward slope on the long sides (option B), cao **B1**

**Answer: B**


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