2.91 Perimeter and Area of Compound Shapes: 10-minute Pack

Total Marks

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

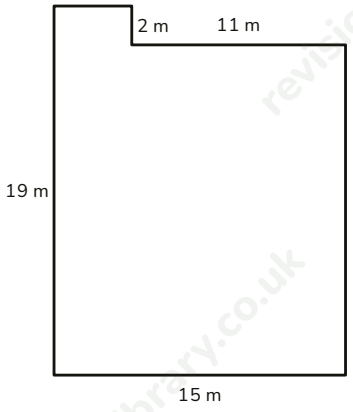
1 A square of side 6 cm has a 2 cm by 3 cm rectangle removed from one side (not a corner) leaving a rectilinear shape. What is the area of the new shape?

- ☐ A) 36 cm²
- ☐ B) 33 cm²
- ☐ C) 30 cm²
- ☐ D) 18 cm²
- ☐ E) 24 cm²

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2 A patio is made from a rectangle 15 m by 19 m with a rectangular corner 11 m by 2 m removed, leaving an L-shape. What is the area of the L-shape?

Diagram NOT accurately drawn

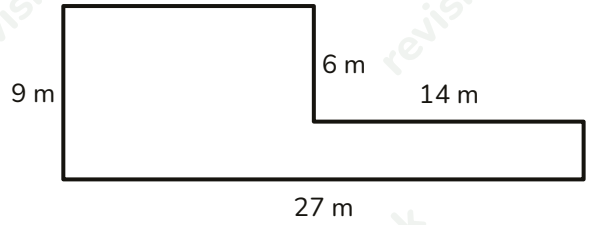


- ☐ A) 22 m²
- ☐ B) 307 m²
- ☐ C) 285 m²
- ☐ D) 264 m²
- ☐ E) 263 m²

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3 A stage is made from a rectangle 27 m by 9 m with a rectangular corner 14 m by 6 m removed, leaving an L-shape. What is the perimeter of the L-shape?

Diagram NOT accurately drawn

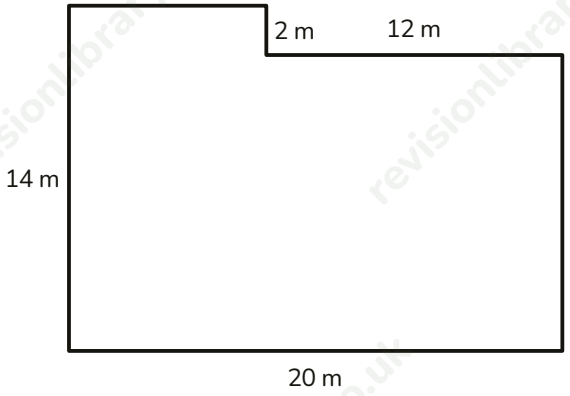


- [ ] A) 72 m
- [ ] B) 52 m
- [ ] C) 32 m
- [ ] D) 112 m
- [ ] E) 92 m

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4 A patio is made from a rectangle 20 m by 14 m with a rectangular corner 12 m by 2 m removed, leaving an L-shape. What is the area of the L-shape?

Diagram NOT accurately drawn

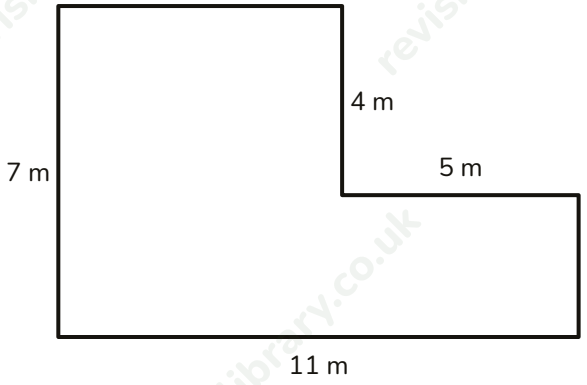


- [ ] A) 96 m²
- [ ] B) 280 m²
- [ ] C) 256 m²
- [ ] D) 24 m²
- [ ] E) 40 m²

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5 A stage is made from a rectangle 11 m by 7 m with a rectangular corner 5 m by 4 m removed, leaving an L-shape. What is the perimeter of the L-shape?

Diagram NOT accurately drawn

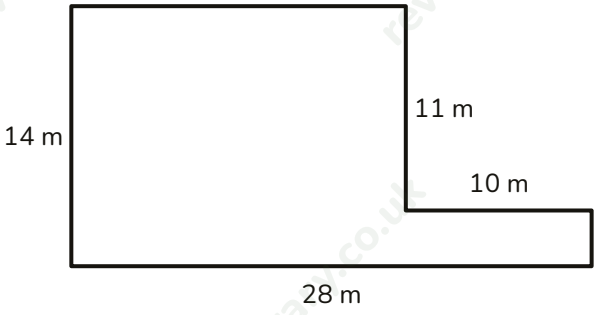


- [ ] A) 36 m
- [ ] B) 27 m
- [ ] C) 57 m
- [ ] D) 54 m
- [ ] E) 18 m

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6 A classroom floor is made from a rectangle 28 m by 14 m with a rectangular corner 10 m by 11 m removed, leaving an L-shape. What is the area of the L-shape?

Diagram NOT accurately drawn

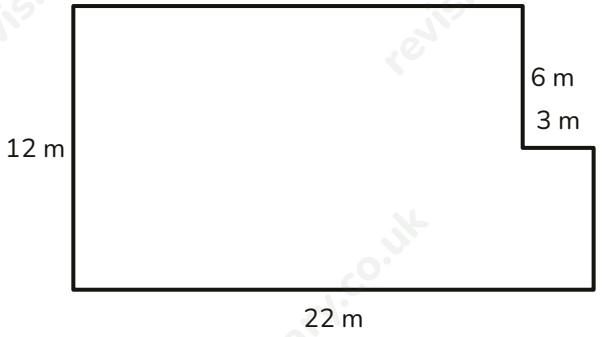


- [ ] A) 392 m²
- [ ] B) 42 m²
- [ ] C) 282 m²
- [ ] D) 110 m²
- [ ] E) 502 m²

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7 A classroom floor is made from a rectangle 22 m by 12 m with a rectangular corner 3 m by 6 m removed, leaving an L-shape. What is the area of the L-shape?

Diagram NOT accurately drawn

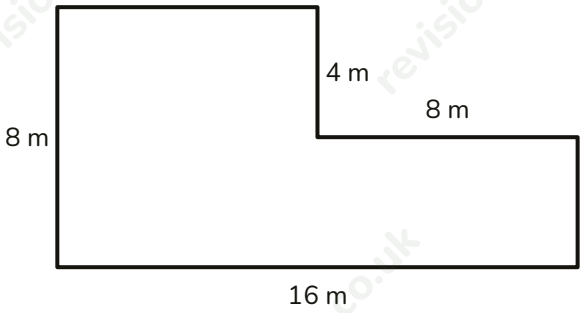


- ☐ A) 114 m²
- ☐ B) 18 m²
- ☐ C) 245 m²
- ☐ D) 246 m²
- ☐ E) 264 m²

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8 A patio is made from a rectangle 16 m by 8 m with a rectangular corner 8 m by 4 m removed, leaving an L-shape. What is the perimeter of the L-shape?

Diagram NOT accurately drawn

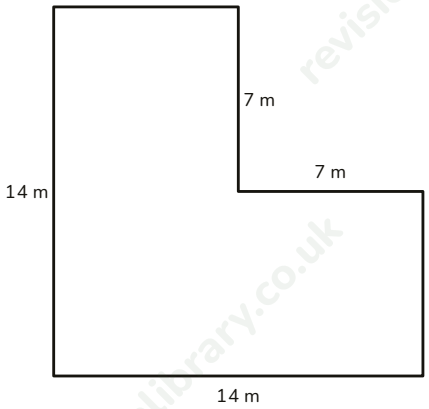


- ☐ A) 24 m
- ☐ B) 47 m
- ☐ C) 72 m
- ☐ D) 36 m
- ☐ E) 48 m

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9 A patio is made from a rectangle 14 m by 14 m with a rectangular corner 7 m by 7 m removed, leaving an L-shape. What is the perimeter of the L-shape?

Diagram NOT accurately drawn



- ☐ A) 56 m
- ☐ B) 28 m
- ☐ C) 84 m
- ☐ D) 42 m
- ☐ E) 55 m

---

10 On a plan, a rectilinear shape has side lengths 10 m, 4 m, 5 m, 3 m, 5 m and 7 m in that order. What is the perimeter of this shape in metres?

- ☐ A) 34 m
- ☐ B) 36 m
- ☐ C) 32 m
- ☐ D) 38 m
- ☐ E) 30 m

---

11 A rectilinear shape has seven known side lengths, in order around its perimeter: 5 cm, 6 cm, 4 cm, 3 cm, 2 cm, 8 cm and 7 cm. The eighth side is missing. The total perimeter is 40 cm. What is the length of the missing side?

- ☐ A) 3 cm
- ☐ B) 6 cm
- ☐ C) 7 cm
- ☐ D) 4 cm
- ☐ E) 5 cm

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Mark scheme · 2.91 Perimeter and Area of Compound Shapes: 10-minute Pack

Question 1

correct option C (30 cm²) cao **B1**

Answer: C) 30 cm^2

Question 2

correct option E (263 m²) cao **B1**

Answer: E) 263 m²

Question 3

correct option A (72 m) cao **B1**

Answer: A) 72 m

Question 4

correct option C (256 m²) cao **B1**

Answer: C) 256 m²

Question 5

correct option A (36 m) cao **B1**

Answer: A) 36 m

Question 6

correct option C (282 m²) cao **B1**

Answer: C) 282 m²

Question 7

correct option D (246 m²) cao **B1**

Answer: D) 246 m²

Question 8

correct option E (48 m) cao **B1**

Answer: E) 48 m

Question 9

correct option A (56 m) cao **B1**

Answer: A) 56 m

Question 10

correct option A (34 m) cao **B1**

Answer: A) 34 m (10+4+5+3+5+7 = 34 m).

Question 11

correct option E (5 cm) cao **B1**

Answer: E) 5 cm

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