# 2.11 Perimeter, Area and Volume: 2-hour Pack

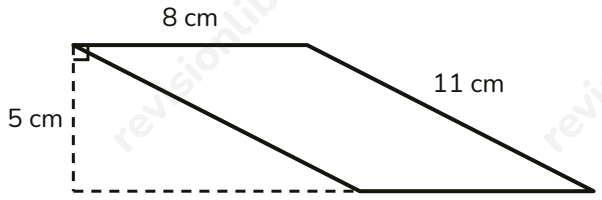
GL ASSESSMENT GL · Calculators not allowed · about 120 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

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

**1** A parallelogram has a base of 8 cm, a sloping side of 11 cm and a perpendicular height of 5 cm. What is its area?




- ☐ A) 88 cm²
- ☐ B) 39 cm²
- ☐ C) 40 cm²
- ☐ D) 20 cm²
- ☐ E) 440 cm²

---

**2** A rectangular allotment is 38 m long and 11 m wide. What is its perimeter?

- ☐ A) 49 m
- ☐ B) 836 m
- ☐ C) 99 m
- ☐ D) 98 m
- ☐ E) 418 m

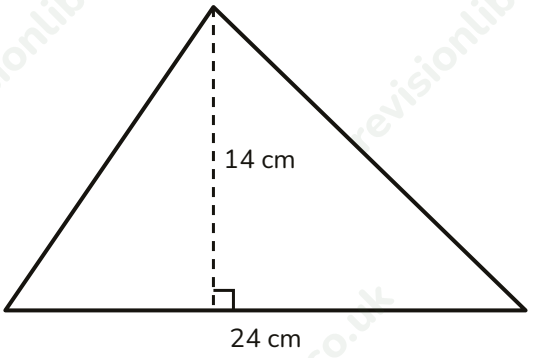
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**3** A rectangular garden has an area of 136 square metres and is 8 m long. How wide is it?

- ☐ A) 17 m
- ☐ B) 128 m
- ☐ C) 68 m
- ☐ D) 1,088 m
- ☐ E) 15 m


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**4** A triangle has a base of 24 cm and a perpendicular height of 14 cm. What is its area?




- ☐ A) 19 cm²
- ☐ B) 168 cm²
- ☐ C) 336 cm²
- ☐ D) 169 cm²
- ☐ E) 38 cm²

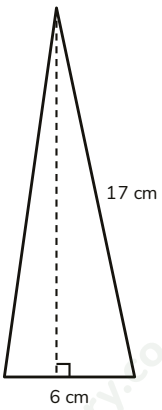
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**5** A rectangular sports hall is 38 m long and 21 m wide. What is its perimeter?

- ☐ A) 798 m
- ☐ B) 59 m
- ☐ C) 80 m
- ☐ D) 97 m
- ☐ E) 118 m


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**6** A triangle has a base of 6 cm and a perpendicular height of 17 cm. What is its area?




- [ ] A) 23 cm²
- [ ] B) 102 cm²
- [ ] C) 11.5 cm²
- [ ] D) 51 cm²
- [ ] E) 25.5 cm²

---

**7** A square allotment has a perimeter of 92 m. How long is each side?

- [ ] A) 23 m
- [ ] B) 88 m
- [ ] C) 46 m
- [ ] D) 24 m
- [ ] E) 529 m

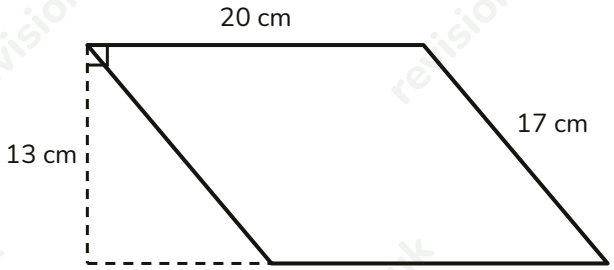
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**8** A rectangular garden measures 19 m by 27 m. What is its area?

- [ ] A) 1,026 m²
- [ ] B) 513 m²
- [ ] C) 92 m²
- [ ] D) 46 m²
- [ ] E) 257 m²


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**9** A parallelogram has a base of 20 cm, a sloping side of 17 cm and a perpendicular height of 13 cm. What is its area?




- ☐ A) 259 cm²
- ☐ B) 130 cm²
- ☐ C) 260 cm²
- ☐ D) 340 cm²
- ☐ E) 4,420 cm²

---

**10** A square garden has a perimeter of 84 m. How long is each side?

- ☐ A) 42 m
- ☐ B) 28 m
- ☐ C) 21 m
- ☐ D) 441 m
- ☐ E) 336 m

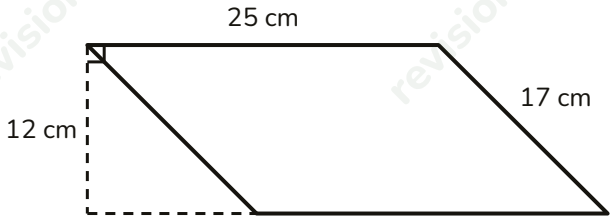
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**11** A rectangular allotment measures 59 m by 37 m. What is its area?

- ☐ A) 2,183 m²
- ☐ B) 2,182 m²
- ☐ C) 96 m²
- ☐ D) 3,481 m²
- ☐ E) 192 m²


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**12** A parallelogram has a base of 25 cm, a sloping side of 17 cm and a perpendicular height of 12 cm. What is its area?




- ☐ A) 299 cm²
- ☐ B) 300 cm²
- ☐ C) 150 cm²
- ☐ D) 425 cm²
- ☐ E) 37 cm²

---

**13** A rectangular football pitch measures 54 m by 35 m. What is its area?

- ☐ A) 89 m²
- ☐ B) 178 m²
- ☐ C) 2,916 m²
- ☐ D) 1,890 m²
- ☐ E) 946 m²

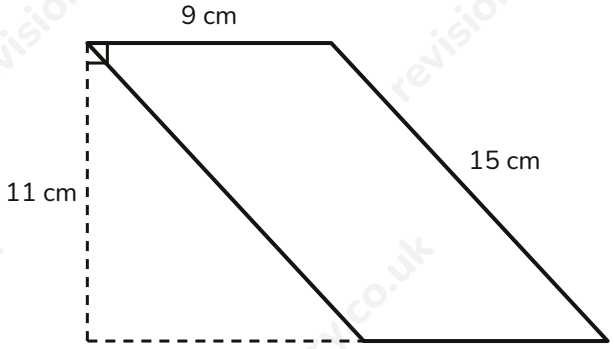
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**14** A rectangular floor measures 59 m by 31 m. What is its area?

- ☐ A) 90 m²
- ☐ B) 3,481 m²
- ☐ C) 180 m²
- ☐ D) 1,829 m²
- ☐ E) 1,828 m²


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**15** A parallelogram has a base of 9 cm, a sloping side of 15 cm and a perpendicular height of 11 cm. What is its area?




- ☐ A) 100 cm²
- ☐ B) 99 cm²
- ☐ C) 49.5 cm²
- ☐ D) 135 cm²
- ☐ E) 48 cm²

---

**16** A rectangular patio is 17 m long and 7 m wide. What is its perimeter?

- ☐ A) 31 m
- ☐ B) 49 m
- ☐ C) 119 m
- ☐ D) 24 m
- ☐ E) 48 m

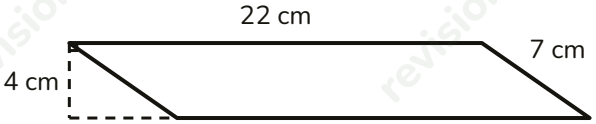
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**17** A rectangular garden has an area of 357 square metres and is 17 m long. How wide is it?

- ☐ A) 6,069 m
- ☐ B) 340 m
- ☐ C) 19 m
- ☐ D) 21 m
- ☐ E) 22 m


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**18** A parallelogram has a base of 22 cm, a sloping side of 7 cm and a perpendicular height of 4 cm. What is its area?




- ☐ A) 87 cm²
- ☐ B) 616 cm²
- ☐ C) 88 cm²
- ☐ D) 154 cm²
- ☐ E) 44 cm²

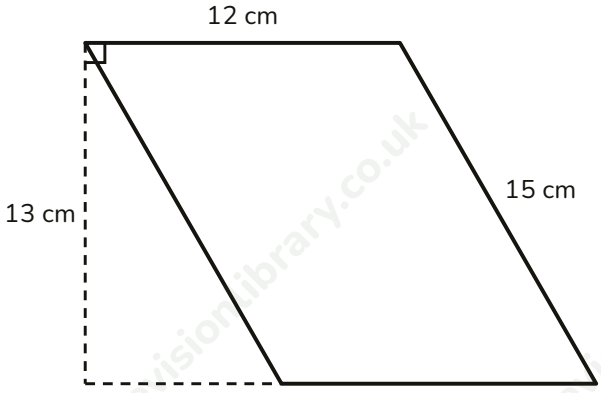
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**19** A rectangular garden is 36 m long and 12 m wide. What is its perimeter?

- ☐ A) 96 m
- ☐ B) 864 m
- ☐ C) 48 m
- ☐ D) 432 m
- ☐ E) 97 m

---

**20** A parallelogram has a base of 12 cm, a sloping side of 15 cm and a perpendicular height of 13 cm. What is its area?




- ☐ A) 157 cm²
- ☐ B) 180 cm²
- ☐ C) 78 cm²
- ☐ D) 156 cm²
- ☐ E) 155 cm²


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**21** A rectangular sports hall is 14 m long and 13 m wide. What is its perimeter?

- ☐ A) 182 m
- ☐ B) 40 m
- ☐ C) 41 m
- ☐ D) 27 m
- ☐ E) 54 m

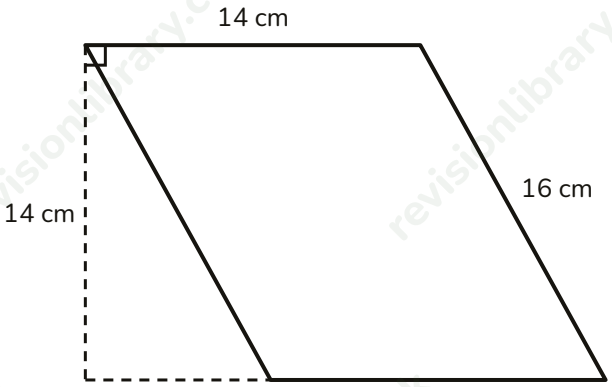
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**22** A rectangular playground measures 28 m by 19 m. What is its area?

- ☐ A) 532 m²
- ☐ B) 94 m²
- ☐ C) 533 m²
- ☐ D) 1,064 m²
- ☐ E) 47 m²

---

**23** A parallelogram has a base of 14 cm, a sloping side of 16 cm and a perpendicular height of 14 cm. What is its area?




- ☐ A) 60 cm²
- ☐ B) 196 cm²
- ☐ C) 98 cm²
- ☐ D) 224 cm²
- ☐ E) 197 cm²


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**24** A rectangular playground is 15 m long and 5 m wide. What is its perimeter?

- ☐ A) 40 m
- ☐ B) 20 m
- ☐ C) 75 m
- ☐ D) 39 m
- ☐ E) 25 m

---

**25** A rectangular playground has an area of 140 square metres and is 28 m long. How wide is it?

- ☐ A) 70 m
- ☐ B) 112 m
- ☐ C) 3,920 m
- ☐ D) 5 m
- ☐ E) 4 m

---

**26** A rectangular playground has a perimeter of 116 m. Its length is 40 m. What is its width?

- ☐ A) 36 m
- ☐ B) 17 m
- ☐ C) 76 m
- ☐ D) 58 m
- ☐ E) 18 m

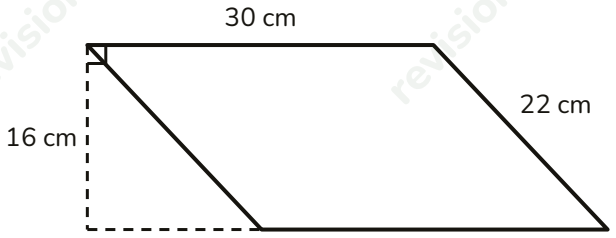
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**27** A rectangular sports hall has an area of 480 square metres and is 24 m long. How wide is it?

- ☐ A) 21 m
- ☐ B) 20 m
- ☐ C) 240 m
- ☐ D) 10 m
- ☐ E) 456 m


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**28** A parallelogram has a base of 30 cm, a sloping side of 22 cm and a perpendicular height of 16 cm. What is its area?




- ☐ A) 10,560 cm²
- ☐ B) 480 cm²
- ☐ C) 660 cm²
- ☐ D) 240 cm²
- ☐ E) 481 cm²

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**29** A square sports hall has a perimeter of 128 m. How long is each side?

- ☐ A) 1,024 m
- ☐ B) 64 m
- ☐ C) 124 m
- ☐ D) 32 m
- ☐ E) 31 m

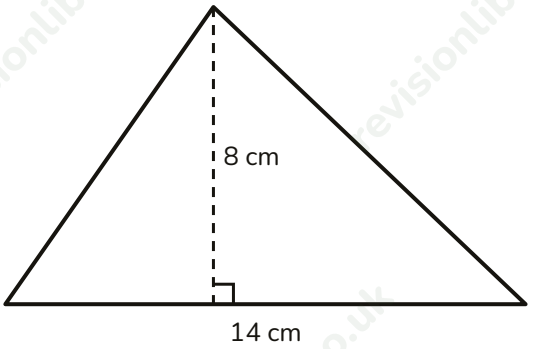
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**30** A floor measures 3 m by 3 m. It is covered with square tiles of side 25 cm. How many tiles are needed?

- ☐ A) 145
- ☐ B) 288
- ☐ C) 24
- ☐ D) 9
- ☐ E) 144


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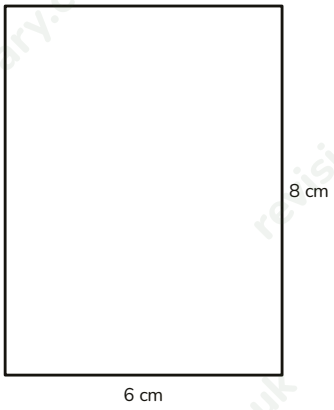
**31** A triangle has a base of 14 cm and a perpendicular height of 8 cm. What is its area?




- [ ] A) 56 cm²
- [ ] B) 112 cm²
- [ ] C) 57 cm²
- [ ] D) 22 cm²
- [ ] E) 11 cm²

---

**32** A rectangle has length 6 cm and width 8 cm. Calculate the perimeter of the rectangle.




- [ ] A) 20 cm
- [ ] B) 48 cm
- [ ] C) 22 cm
- [ ] D) 14 cm
- [ ] E) 28 cm

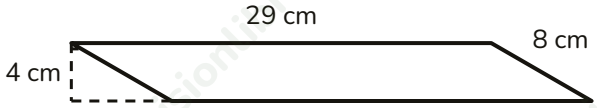

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**33** A rectangular sports hall measures 6 m by 5 m. What is its area?

- ☐ A) 11 m²
- ☐ B) 16 m²
- ☐ C) 22 m²
- ☐ D) 29 m²
- ☐ E) 30 m²

---

**34** A parallelogram has a base of 29 cm, a sloping side of 8 cm and a perpendicular height of 4 cm. What is its area?




- ☐ A) 116 cm²
- ☐ B) 74 cm²
- ☐ C) 232 cm²
- ☐ D) 115 cm²
- ☐ E) 58 cm²

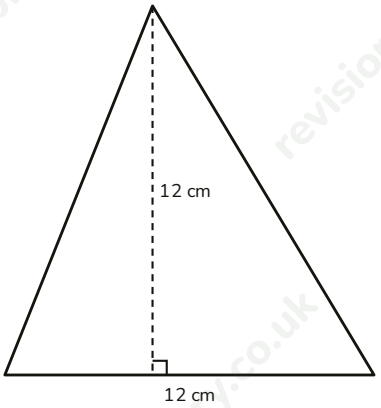
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**35** A rectangular allotment is 38 m long and 12 m wide. What is its perimeter?

- ☐ A) 101 m
- ☐ B) 100 m
- ☐ C) 456 m
- ☐ D) 50 m
- ☐ E) 912 m


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**36** A triangle has a base of 12 cm and a perpendicular height of 12 cm. What is its area?




- ☐ A) 71 cm²
- ☐ B) 12 cm²
- ☐ C) 144 cm²
- ☐ D) 72 cm²
- ☐ E) 24 cm²

---

**37** A rectangular garden is 38 m long and 23 m wide. What is its perimeter?

- ☐ A) 123 m
- ☐ B) 122 m
- ☐ C) 874 m
- ☐ D) 99 m
- ☐ E) 61 m

---

**38** A rectangular garden measures 56 m by 28 m. What is its area?

- ☐ A) 3,136 m²
- ☐ B) 1,567 m²
- ☐ C) 168 m²
- ☐ D) 1,568 m²
- ☐ E) 84 m²


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**39** A square sports hall has a perimeter of 152 m. How long is each side?

- ☐ A) 38 m
- ☐ B) 37 m
- ☐ C) 39 m
- ☐ D) 1,444 m
- ☐ E) 76 m

---

**40** A rectangular garden has a perimeter of 100 m. Its length is 33 m. What is its width?

- ☐ A) 17 m
- ☐ B) 19 m
- ☐ C) 34 m
- ☐ D) 67 m
- ☐ E) 50 m

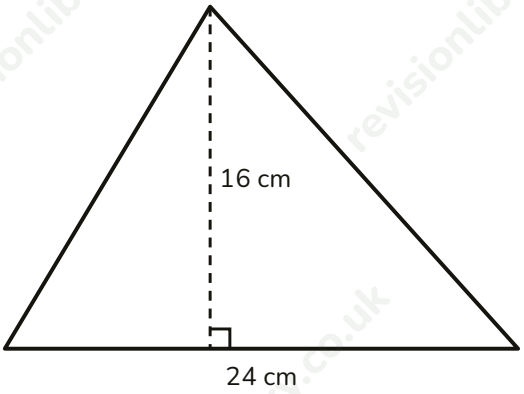
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**41** A floor measures 4 m by 4 m. It is covered with square tiles of side 50 cm. How many tiles are needed?

- ☐ A) 63
- ☐ B) 32
- ☐ C) 65
- ☐ D) 16
- ☐ E) 64


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**42** A triangle has a base of 24 cm and a perpendicular height of 16 cm. What is its area?




- ☐ A) 40 cm²
- ☐ B) 193 cm²
- ☐ C) 80 cm²
- ☐ D) 192 cm²
- ☐ E) 384 cm²

---

**43** A rectangular allotment is 17 m long and 16 m wide. What is its perimeter?

- ☐ A) 33 m
- ☐ B) 65 m
- ☐ C) 66 m
- ☐ D) 272 m
- ☐ E) 544 m

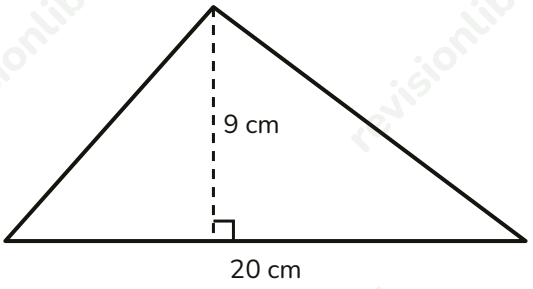
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**44** A rectangular garden has an area of 240 square metres and is 30 m long. How wide is it?

- ☐ A) 9 m
- ☐ B) 8 m
- ☐ C) 120 m
- ☐ D) 210 m
- ☐ E) 7,200 m


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**45** A triangle has a base of 20 cm and a perpendicular height of 9 cm. What is its area?




- ☐ A) 14.5 cm²
- ☐ B) 91 cm²
- ☐ C) 29 cm²
- ☐ D) 180 cm²
- ☐ E) 90 cm²

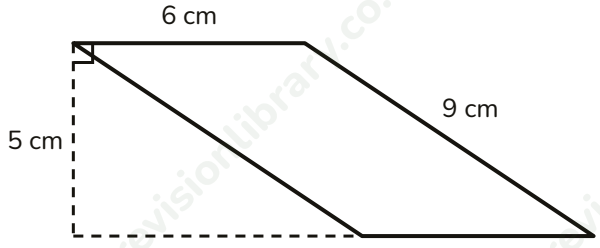
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**46** A rectangular swimming pool has an area of 270 square metres and is 15 m long. How wide is it?

- ☐ A) 255 m
- ☐ B) 135 m
- ☐ C) 9 m
- ☐ D) 18 m
- ☐ E) 16 m

---

**47** A parallelogram has a base of 6 cm, a sloping side of 9 cm and a perpendicular height of 5 cm. What is its area?




- ☐ A) 30 cm²
- ☐ B) 15 cm²
- ☐ C) 11 cm²
- ☐ D) 54 cm²
- ☐ E) 270 cm²


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**48** A square patio has a perimeter of 80 m. How long is each side?

- [ ] A) 40 m
- [ ] B) 320 m
- [ ] C) 20 m
- [ ] D) 19 m
- [ ] E) 400 m

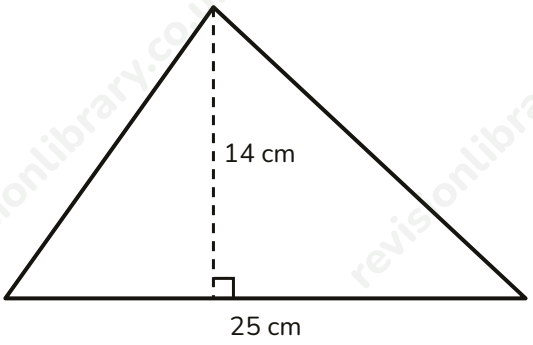
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**49** A rectangular sports hall measures 47 m by 16 m. What is its area?

- [ ] A) 63 m²
- [ ] B) 752 m²
- [ ] C) 126 m²
- [ ] D) 753 m²
- [ ] E) 751 m²

---

**50** A triangle has a base of 25 cm and a perpendicular height of 14 cm. What is its area?




- [ ] A) 350 cm²
- [ ] B) 39 cm²
- [ ] C) 174 cm²
- [ ] D) 176 cm²
- [ ] E) 175 cm²

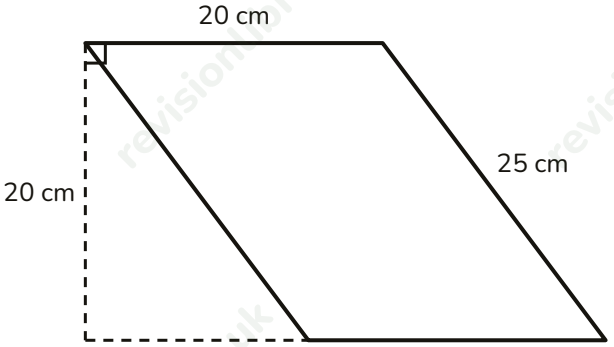

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**51** A rectangular swimming pool is 12 m long and 11 m wide. What is its perimeter?

- ☐ A) 264 m
- ☐ B) 47 m
- ☐ C) 132 m
- ☐ D) 23 m
- ☐ E) 46 m

---

**52** A parallelogram has a base of 20 cm, a sloping side of 25 cm and a perpendicular height of 20 cm. What is its area?




- ☐ A) 90 cm²
- ☐ B) 40 cm²
- ☐ C) 200 cm²
- ☐ D) 400 cm²
- ☐ E) 500 cm²

---

**53** A rectangular patio has a perimeter of 112 m. Its length is 34 m. What is its width?

- ☐ A) 22 m
- ☐ B) 78 m
- ☐ C) 21 m
- ☐ D) 23 m
- ☐ E) 44 m

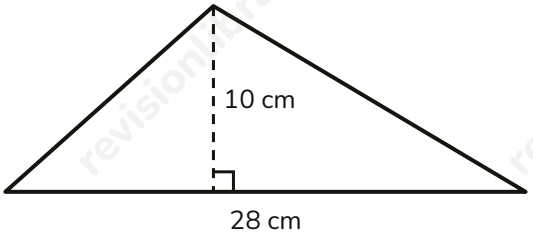

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**54** A floor measures 2 m by 5 m. It is covered with square tiles of side 20 cm. How many tiles are needed?

- [ ] A) 10
- [ ] B) 70
- [ ] C) 250
- [ ] D) 500
- [ ] E) 35

---

**55** A triangle has a base of 28 cm and a perpendicular height of 10 cm. What is its area?




- [ ] A) 19 cm²
- [ ] B) 38 cm²
- [ ] C) 76 cm²
- [ ] D) 140 cm²
- [ ] E) 280 cm²

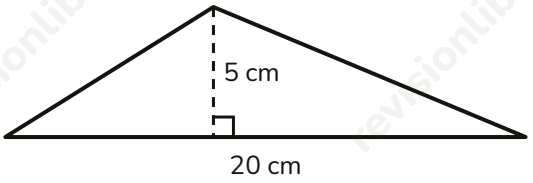
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**56** A rectangular allotment has a perimeter of 118 m. Its length is 40 m. What is its width?

- [ ] A) 78 m
- [ ] B) 38 m
- [ ] C) 20 m
- [ ] D) 21 m
- [ ] E) 19 m


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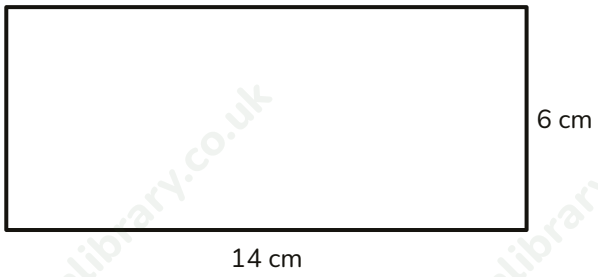
**57** A triangle has a base of 20 cm and a perpendicular height of 5 cm. What is its area?




- ☐ A) 12.5 cm²
- ☐ B) 49 cm²
- ☐ C) 25 cm²
- ☐ D) 50 cm²
- ☐ E) 100 cm²

---

**58** A rectangle has length 14 cm and width 6 cm. Calculate the perimeter of the rectangle.




- ☐ A) 34 cm
- ☐ B) 40 cm
- ☐ C) 84 cm
- ☐ D) 20 cm
- ☐ E) 26 cm

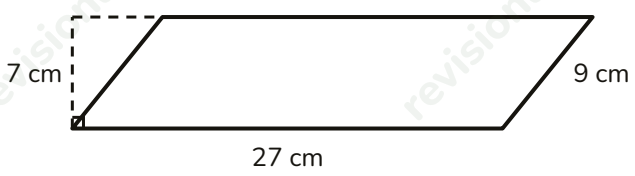
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**59** A floor measures 2 m by 4 m. It is covered with square tiles of side 20 cm. How many tiles are needed?

- ☐ A) 200
- ☐ B) 8
- ☐ C) 30
- ☐ D) 60
- ☐ E) 201


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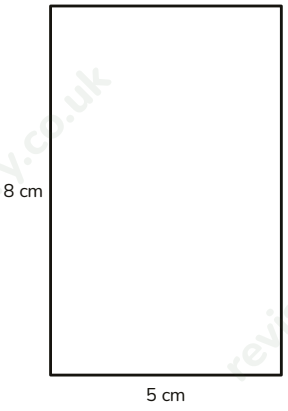
**60** A parallelogram has a base of 27 cm, a sloping side of 9 cm and a perpendicular height of 7 cm. What is its area?




- ☐ A) 190 cm²
- ☐ B) 34 cm²
- ☐ C) 94.5 cm²
- ☐ D) 243 cm²
- ☐ E) 189 cm²

---

**61** A rectangle has length 5 cm and width 8 cm. Calculate the perimeter of the rectangle.




- ☐ A) 26 cm
- ☐ B) 40 cm
- ☐ C) 21 cm
- ☐ D) 13 cm
- ☐ E) 18 cm

---

**62** A rectangular allotment has a perimeter of 38 m. Its length is 10 m. What is its width?

- ☐ A) 10 m
- ☐ B) 18 m
- ☐ C) 28 m
- ☐ D) 19 m
- ☐ E) 9 m

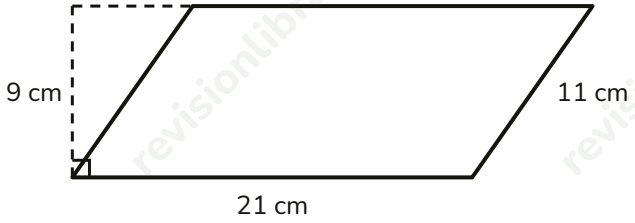

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**63** A rectangular allotment has an area of 108 square metres and is 9 m long. How wide is it?

- [ ] A) 10 m
- [ ] B) 99 m
- [ ] C) 54 m
- [ ] D) 12 m
- [ ] E) 13 m

---

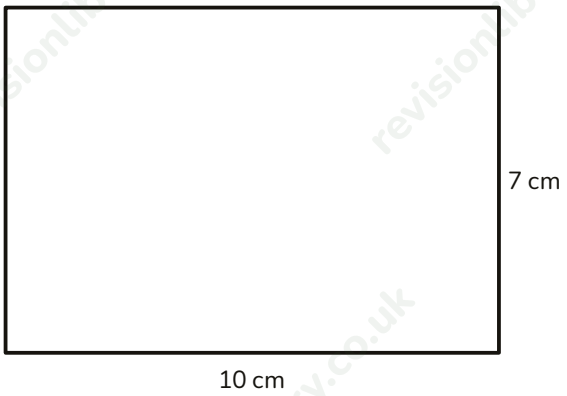
**64** A parallelogram has a base of 21 cm, a sloping side of 11 cm and a perpendicular height of 9 cm. What is its area?




- [ ] A) 2,079 $cm^2$
- [ ] B) 94.5 $cm^2$
- [ ] C) 189 $cm^2$
- [ ] D) 30 $cm^2$
- [ ] E) 231 $cm^2$


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**65** A rectangle has length 10 cm and width 7 cm. Calculate the perimeter of the rectangle.




- [ ] A) 17 cm
- [ ] B) 34 cm
- [ ] C) 24 cm
- [ ] D) 70 cm
- [ ] E) 27 cm

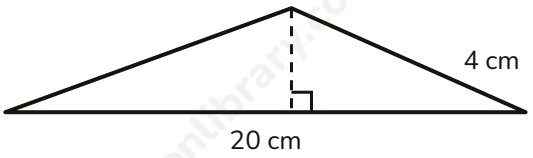
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**66** A rectangular playground measures 44 m by 20 m. What is its area?

- [ ] A) 881 m²
- [ ] B) 880 m²
- [ ] C) 128 m²
- [ ] D) 64 m²
- [ ] E) 879 m²

---

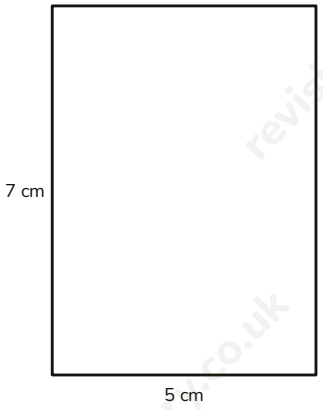
**67** A triangle has a base of 20 cm and a perpendicular height of 4 cm. What is its area?




- [ ] A) 20 cm²
- [ ] B) 80 cm²
- [ ] C) 40 cm²
- [ ] D) 24 cm²
- [ ] E) 12 cm²


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**68** A rectangle has length 5 cm and width 7 cm. Calculate the perimeter of the rectangle.




- [ ] A) 24 cm
- [ ] B) 19 cm
- [ ] C) 35 cm
- [ ] D) 17 cm
- [ ] E) 12 cm

---

**69** A rectangular swimming pool is 36 m long and 2 m wide. What is its perimeter?

- [ ] A) 72 m
- [ ] B) 38 m
- [ ] C) 144 m
- [ ] D) 76 m
- [ ] E) 40 m

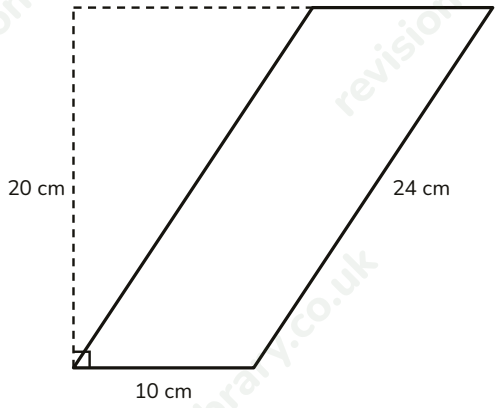
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**70** A floor measures 3 m by 5 m. It is covered with square tiles of side 50 cm. How many tiles are needed?

- [ ] A) 60
- [ ] B) 30
- [ ] C) 15
- [ ] D) 16
- [ ] E) 120


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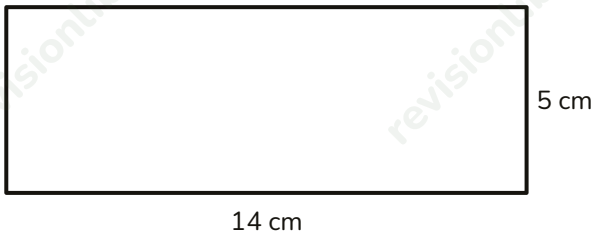
**71** A parallelogram has a base of 10 cm, a sloping side of 24 cm and a perpendicular height of 20 cm. What is its area?




- ☐ A) 4,800 cm²
- ☐ B) 201 cm²
- ☐ C) 100 cm²
- ☐ D) 240 cm²
- ☐ E) 200 cm²

---

**72** A rectangle has length 14 cm and width 5 cm. Calculate the perimeter of the rectangle.




- ☐ A) 33 cm
- ☐ B) 19 cm
- ☐ C) 38 cm
- ☐ D) 24 cm
- ☐ E) 70 cm

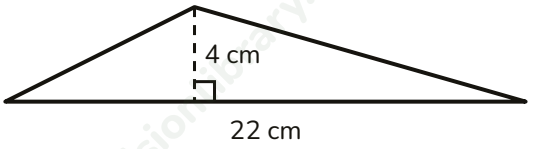

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**73** A rectangular allotment has an area of 252 square metres and is 18 m long. How wide is it?

- [ ] A) 4,536 m
- [ ] B) 13 m
- [ ] C) 126 m
- [ ] D) 14 m
- [ ] E) 234 m

---

**74** A triangle has a base of 22 cm and a perpendicular height of 4 cm. What is its area?




- [ ] A) 88 cm²
- [ ] B) 45 cm²
- [ ] C) 44 cm²
- [ ] D) 26 cm²
- [ ] E) 13 cm²

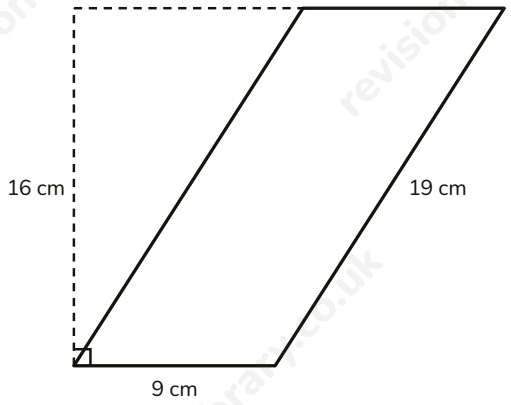
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**75** A rectangular sports hall has a perimeter of 118 m. Its length is 38 m. What is its width?

- [ ] A) 20 m
- [ ] B) 80 m
- [ ] C) 42 m
- [ ] D) 21 m
- [ ] E) 22 m


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**76** A parallelogram has a base of 9 cm, a sloping side of 19 cm and a perpendicular height of 16 cm. What is its area?




- ☐ A) 144 cm²
- ☐ B) 25 cm²
- ☐ C) 56 cm²
- ☐ D) 72 cm²
- ☐ E) 171 cm²

---

**77** A square has a perimeter of 36 cm. Calculate the area of the square.

**(2)**

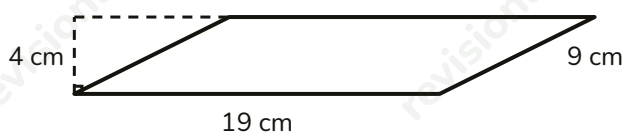
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**78** A square patio has a perimeter of 56 m. How long is each side?

- ☐ A) 28 m
- ☐ B) 14 m
- ☐ C) 52 m
- ☐ D) 196 m
- ☐ E) 13 m


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**79** A parallelogram has a base of 19 cm, a sloping side of 9 cm and a perpendicular height of 4 cm. What is its area?




- ☐ A) 75 cm²
- ☐ B) 77 cm²
- ☐ C) 38 cm²
- ☐ D) 76 cm²
- ☐ E) 171 cm²

---

**80** A rectangular swimming pool is 24 m long and 15 m wide. What is its perimeter?

- ☐ A) 720 m
- ☐ B) 78 m
- ☐ C) 39 m
- ☐ D) 360 m
- ☐ E) 77 m

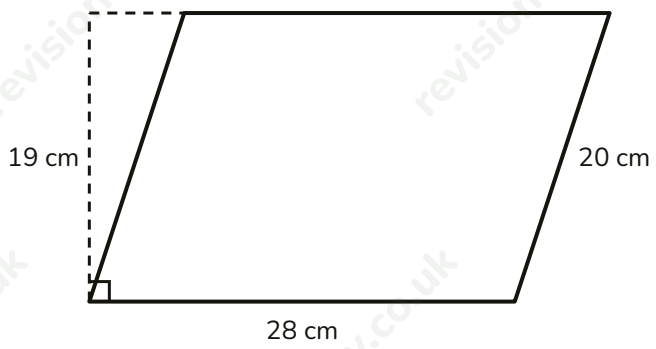
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**81** A rectangular sports hall has an area of 299 square metres and is 23 m long. How wide is it?

- ☐ A) 12 m
- ☐ B) 276 m
- ☐ C) 13 m
- ☐ D) 6,877 m
- ☐ E) 14 m


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**82** A parallelogram has a base of 28 cm, a sloping side of 20 cm and a perpendicular height of 19 cm. What is its area?




- ☐ A) 532 cm²
- ☐ B) 266 cm²
- ☐ C) 560 cm²
- ☐ D) 531 cm²
- ☐ E) 96 cm²

---

**83** A rectangular classroom floor is 16 m long and 5 m wide. What is its perimeter?

- ☐ A) 42 m
- ☐ B) 41 m
- ☐ C) 21 m
- ☐ D) 80 m
- ☐ E) 43 m

---

**84** A rectangular garden measures 13 m by 23 m. What is its area?

- ☐ A) 36 m²
- ☐ B) 169 m²
- ☐ C) 72 m²
- ☐ D) 298 m²
- ☐ E) 299 m²


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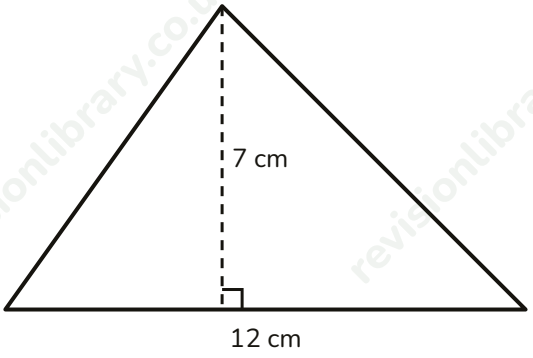
**85** A parallelogram has a base of 28 cm, a sloping side of 14 cm and a perpendicular height of 11 cm. What is its area?




- ☐ A) 154 cm²
- ☐ B) 308 cm²
- ☐ C) 4,312 cm²
- ☐ D) 309 cm²
- ☐ E) 392 cm²

---

**86** A triangle has a base of 12 cm and a perpendicular height of 7 cm. Calculate the area of the triangle.




**(2)**

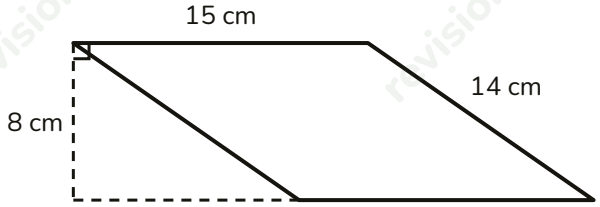
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**87** A rectangular playground has an area of 126 square metres and is 6 m long. How wide is it?

- ☐ A) 22 m
- ☐ B) 120 m
- ☐ C) 21 m
- ☐ D) 20 m
- ☐ E) 63 m


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**88** A parallelogram has a base of 15 cm, a sloping side of 14 cm and a perpendicular height of 8 cm. What is its area?




- ☐ A) 23 cm²
- ☐ B) 120 cm²
- ☐ C) 60 cm²
- ☐ D) 119 cm²
- ☐ E) 210 cm²

---

**89** A rectangular garden is 33 m long and 10 m wide. What is its perimeter?

- ☐ A) 43 m
- ☐ B) 330 m
- ☐ C) 660 m
- ☐ D) 86 m
- ☐ E) 87 m

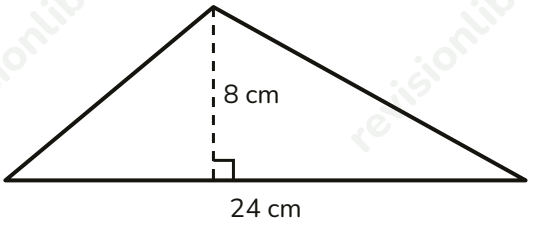
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**90** A floor measures 3 m by 4 m. It is covered with square tiles of side 50 cm. How many tiles are needed?

- ☐ A) 14
- ☐ B) 24
- ☐ C) 12
- ☐ D) 47
- ☐ E) 48


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**91** A triangle has a base of 24 cm and a perpendicular height of 8 cm. What is its area?




- [ ] A) 96 cm²
- [ ] B) 95 cm²
- [ ] C) 16 cm²
- [ ] D) 32 cm²
- [ ] E) 192 cm²

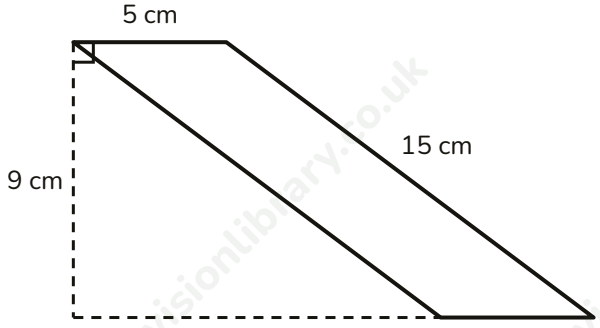
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**92** A square sports hall has a perimeter of 100 m. How long is each side?

- [ ] A) 625 m
- [ ] B) 50 m
- [ ] C) 25 m
- [ ] D) 24 m
- [ ] E) 96 m

---

**93** A parallelogram has a base of 5 cm, a sloping side of 15 cm and a perpendicular height of 9 cm. What is its area?




- [ ] A) 22.5 cm²
- [ ] B) 40 cm²
- [ ] C) 45 cm²
- [ ] D) 44 cm²
- [ ] E) 75 cm²


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**94** A rectangular playground is 35 m long and 23 m wide. What is its perimeter?

- ☐ A) 58 m
- ☐ B) 116 m
- ☐ C) 93 m
- ☐ D) 805 m
- ☐ E) 81 m

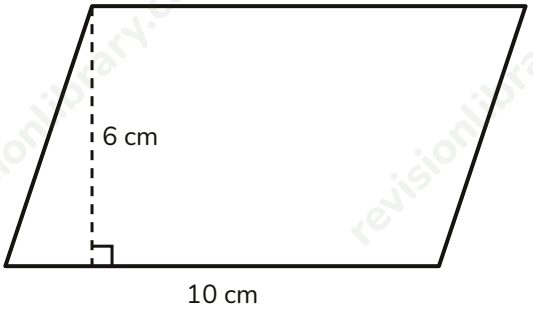
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**95** A rectangular playground has an area of 196 square metres and is 14 m long. How wide is it?

- ☐ A) 14 m
- ☐ B) 98 m
- ☐ C) 12 m
- ☐ D) 182 m
- ☐ E) 7 m

---

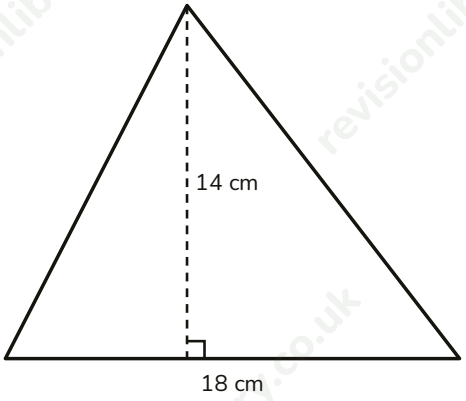
**96** A parallelogram has a base of 10 cm and a perpendicular height of 6 cm. Calculate the area of the parallelogram.




**(2)**


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**97** A triangle has a base of 18 cm and a perpendicular height of 14 cm. What is its area?




- ☐ A) 63 cm²
- ☐ B) 252 cm²
- ☐ C) 125 cm²
- ☐ D) 32 cm²
- ☐ E) 126 cm²

---

**98** A square allotment has a perimeter of 72 m. How long is each side?

- ☐ A) 18 m
- ☐ B) 324 m
- ☐ C) 36 m
- ☐ D) 19 m
- ☐ E) 17 m

---

**99** A rectangular sports hall measures 31 m by 6 m. What is its area?

- ☐ A) 37 m²
- ☐ B) 186 m²
- ☐ C) 74 m²
- ☐ D) 185 m²
- ☐ E) 961 m²


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**100** A rectangular allotment is 35 m long and 3 m wide. What is its perimeter?

- [ ] A) 77 m
- [ ] B) 105 m
- [ ] C) 73 m
- [ ] D) 76 m
- [ ] E) 38 m

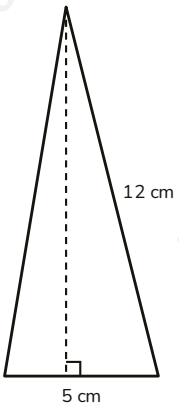
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**101** A floor measures 6 m by 2 m. It is covered with square tiles of side 40 cm. How many tiles are needed?

- [ ] A) 20
- [ ] B) 30
- [ ] C) 75
- [ ] D) 12
- [ ] E) 76

---

**102** A triangle has a base of 5 cm and a perpendicular height of 12 cm. What is its area?




- [ ] A) 17 $cm^2$
- [ ] B) 30 $cm^2$
- [ ] C) 34 $cm^2$
- [ ] D) 60 $cm^2$
- [ ] E) 31 $cm^2$

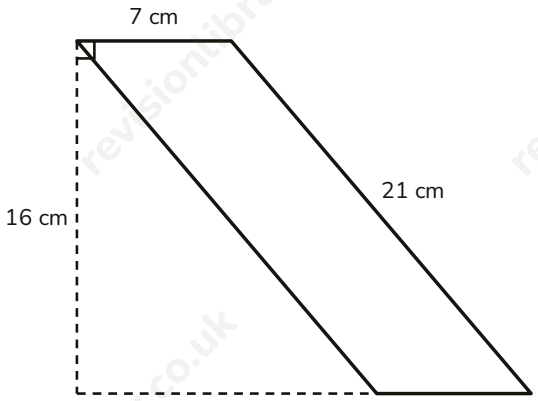

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**103** A rectangular playground has an area of 380 square metres and is 20 m long. How wide is it?

- [ ] A) 190 m
- [ ] B) 17 m
- [ ] C) 360 m
- [ ] D) 19 m
- [ ] E) 20 m

---

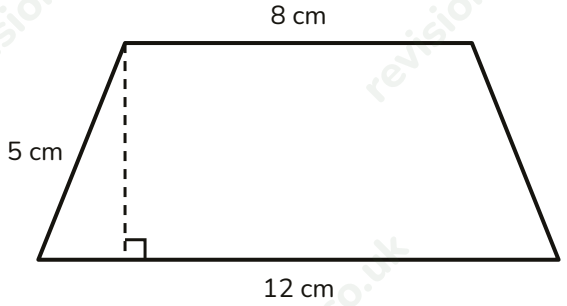
**104** A parallelogram has a base of 7 cm, a sloping side of 21 cm and a perpendicular height of 16 cm. What is its area?




- [ ] A) 112 cm²
- [ ] B) 147 cm²
- [ ] C) 2,352 cm²
- [ ] D) 111 cm²
- [ ] E) 56 cm²


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**105** A trapezium has parallel sides of length 8 cm and 12 cm, and a perpendicular height of 5 cm. Calculate the area of the trapezium.




**(3)**

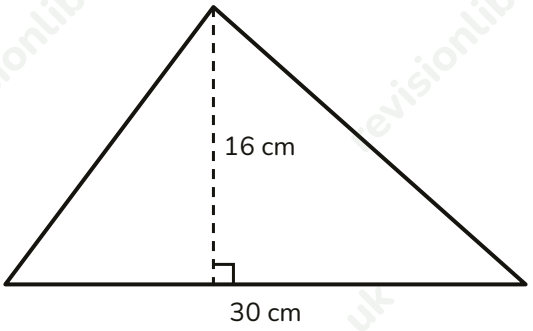
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**106** A floor measures 5 m by 3 m. It is covered with square tiles of side 20 cm. How many tiles are needed?

- ☐ A) 80
- ☐ B) 750
- ☐ C) 15
- ☐ D) 40
- ☐ E) 375


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**107** A triangle has a base of 30 cm and a perpendicular height of 16 cm. What is its area?




- ☐ A) 241 cm²
- ☐ B) 240 cm²
- ☐ C) 480 cm²
- ☐ D) 46 cm²
- ☐ E) 120 cm²

---

**108** A rectangular garden is 38 m long and 4 m wide. What is its perimeter?

- ☐ A) 304 m
- ☐ B) 152 m
- ☐ C) 83 m
- ☐ D) 84 m
- ☐ E) 42 m

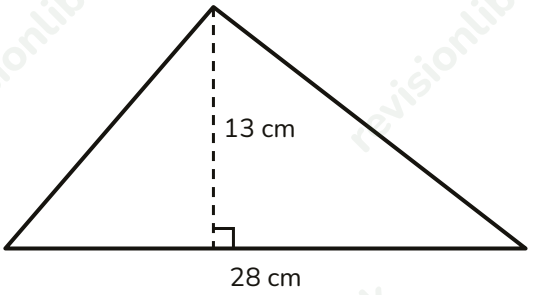
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**109** A rectangular allotment has an area of 322 square metres and is 14 m long. How wide is it?

- ☐ A) 308 m
- ☐ B) 22 m
- ☐ C) 23 m
- ☐ D) 24 m
- ☐ E) 161 m


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**110** A triangle has a base of 28 cm and a perpendicular height of 13 cm. What is its area?




- [ ] A) 182 cm²
- [ ] B) 364 cm²
- [ ] C) 183 cm²
- [ ] D) 91 cm²
- [ ] E) 41 cm²

---

**111** A rectangular swimming pool is 25 m long and 18 m wide. What is its perimeter?

- [ ] A) 900 m
- [ ] B) 86 m
- [ ] C) 450 m
- [ ] D) 43 m
- [ ] E) 68 m

---

**112** A rectangular sports hall has an area of 187 square metres and is 11 m long. How wide is it?

- [ ] A) 17 m
- [ ] B) 15 m
- [ ] C) 2,057 m
- [ ] D) 16 m
- [ ] E) 176 m

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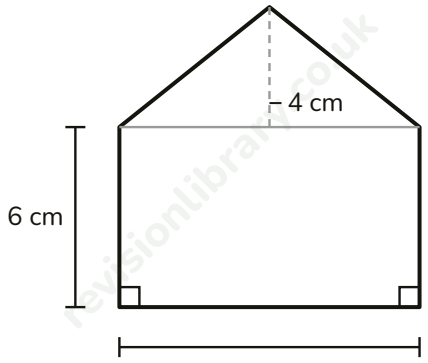
**113** A square playground has a perimeter of 120 m. How long is each side?

- [ ] A) 60 m
- [ ] B) 31 m
- [ ] C) 900 m
- [ ] D) 480 m
- [ ] E) 30 m


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**114** A garden ornament is made from a rectangle with a triangle on top, forming a simple house-shaped outline. The rectangle is 10 cm wide and 6 cm tall. The triangle on top has a base of 10 cm and a perpendicular height of 4 cm. Calculate the total area of the shape.

Diagram NOT accurately drawn



*(not to scale)*

**(3)**

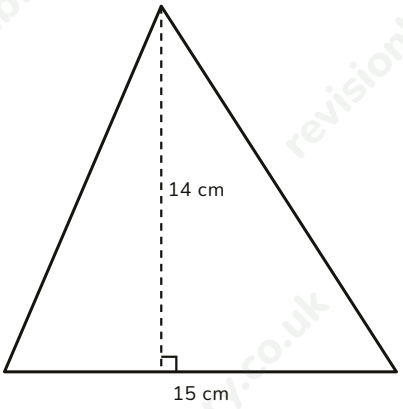
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**115** A rectangular swimming pool measures 20 m by 30 m. What is its area?

- ☐ A) 50 m²
- ☐ B) 599 m²
- ☐ C) 601 m²
- ☐ D) 600 m²
- ☐ E) 100 m²


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**116** A triangle has a base of 15 cm and a perpendicular height of 14 cm. What is its area?




- [ ] A) 105 cm²
- [ ] B) 104 cm²
- [ ] C) 210 cm²
- [ ] D) 29 cm²
- [ ] E) 58 cm²

---

**117** A rectangular allotment is 19 m long and 11 m wide. What is its perimeter?

- [ ] A) 418 m
- [ ] B) 30 m
- [ ] C) 60 m
- [ ] D) 41 m
- [ ] E) 209 m

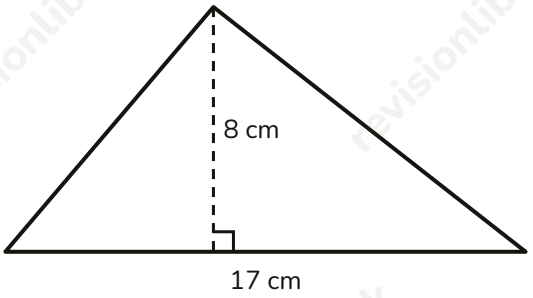
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**118** A rectangular classroom floor has an area of 209 square metres and is 11 m long. How wide is it?

- [ ] A) 20 m
- [ ] B) 198 m
- [ ] C) 17 m
- [ ] D) 19 m
- [ ] E) 2,299 m


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**119** A triangle has a base of 17 cm and a perpendicular height of 8 cm. What is its area?




- ☐ A) 34 cm²
- ☐ B) 25 cm²
- ☐ C) 12.5 cm²
- ☐ D) 136 cm²
- ☐ E) 68 cm²

---

**120** A rectangular patio has an area of 165 square metres and is 11 m long. How wide is it?

- ☐ A) 13 m
- ☐ B) 15 m
- ☐ C) 154 m
- ☐ D) 14 m
- ☐ E) 1,815 m


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# Mark scheme · 2.11 Perimeter, Area and Volume: 2-hour Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

## Question 1

correct option C (40 cm²) cao **B1**

**Answer: C) 40 cm²**

## Question 2

correct option D (98 m) cao **B1**

**Answer: D) 98 m**

## Question 3

correct option A (17 m) cao **B1**

**Answer: A) 17 m**

## Question 4

correct option B (168 cm²) cao **B1**

**Answer: B) 168 cm²**

## Question 5

correct option E (118 m) cao **B1**

**Answer: E) 118 m**

## Question 6

correct option D (51 cm²) cao **B1**

**Answer: D) 51 cm²**

## Question 7

correct option A (23 m) cao **B1**

**Answer: A) 23 m**

## Question 8

correct option B (513 m²) cao **B1**

**Answer: B) 513 m²**

## Question 9

correct option C (260 cm²) cao **B1**

**Answer: C) 260 cm²**

## Question 10

correct option C (21 m) cao **B1**

**Answer: C) 21 m**

## Question 11

correct option A (2,183 m²) cao **B1**

**Answer: A) 2,183 m²**

## Question 12

correct option B (300 cm²) cao **B1**

**Answer: B) 300 cm²**

## Question 13

correct option D (1,890 m²) cao **B1**

**Answer: D) 1,890 m²**

## Question 14

correct option D (1,829 m²) cao **B1**

**Answer: D) 1,829 m²**

## Question 15

correct option B (99 cm²) cao **B1**

**Answer: B) 99 cm²**

## Question 16

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

**Answer: E) 48 m**

## Question 17

correct option D (21 m) cao **B1**

**Answer: D) 21 m**

## Question 18

correct option C (88 cm²) cao **B1**

**Answer: C) 88 cm²**

## Question 19

correct option A (96 m) cao **B1**

**Answer: A) 96 m**

## Question 20

correct option D (156 cm²) cao **B1**

**Answer: D) 156 cm²**

## Question 21

correct option E (54 m) cao **B1**

**Answer: E) 54 m**

## Question 22

correct option A (532 m²) cao **B1**

**Answer: A) 532 m²**

## Question 23

correct option B (196 cm²) cao **B1**

**Answer: B) 196 cm²**

## Question 24

correct option A (40 m) cao **B1**

**Answer: A) 40 m**

## Question 25

correct option D (5 m) cao **B1**

**Answer: D) 5 m**

## Question 26

correct option E (18 m) cao **B1**

**Answer: E) 18 m**

## Question 27

correct option B (20 m) cao **B1**

**Answer: B) 20 m**


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## Question 28

correct option B (480 cm²) cao **B1**

**Answer: B) 480 cm²**

## Question 29

correct option D (32 m) cao **B1**

**Answer: D) 32 m**

## Question 30

correct option E (144) cao **B1**

**Answer: E) 144**

## Question 31

correct option A (56 cm²) cao **B1**

**Answer: A) 56 cm²**

## Question 32

correct option E (28 cm) cao **B1**

**Answer: E) 28 cm**

## Question 33

correct option E (30 m²) cao **B1**

**Answer: E) 30 m²**

## Question 34

correct option A (116 cm²) cao **B1**

**Answer: A) 116 cm²**

## Question 35

correct option B (100 m) cao **B1**

**Answer: B) 100 m**

## Question 36

correct option D (72 cm²) cao **B1**

**Answer: D) 72 cm²**

## Question 37

correct option B (122 m) cao **B1**

**Answer: B) 122 m**

## Question 38

correct option D (1,568 m²) cao **B1**

**Answer: D) 1,568 m²**

## Question 39

correct option A (38 m) cao **B1**

**Answer: A) 38 m**

## Question 40

correct option A (17 m) cao **B1**

**Answer: A) 17 m**

## Question 41

correct option E (64) cao **B1**

**Answer: E) 64**

## Question 42

correct option D (192 cm²) cao **B1**

**Answer: D) 192 cm²**

## Question 43

correct option C (66 m) cao **B1**

**Answer: C) 66 m**

## Question 44

correct option B (8 m) cao **B1**

**Answer: B) 8 m**

## Question 45

correct option E (90 cm²) cao **B1**

**Answer: E) 90 cm²**

## Question 46

correct option D (18 m) cao **B1**

**Answer: D) 18 m**

## Question 47

correct option A (30 cm²) cao **B1**

**Answer: A) 30 cm²**

## Question 48

correct option C (20 m) cao **B1**

**Answer: C) 20 m**

## Question 49

correct option B (752 m²) cao **B1**

**Answer: B) 752 m²**

## Question 50

correct option E (175 cm²) cao **B1**

**Answer: E) 175 cm²**

## Question 51

correct option E (46 m) cao **B1**

**Answer: E) 46 m**

## Question 52

correct option D (400 cm²) cao **B1**

**Answer: D) 400 cm²**

## Question 53

correct option A (22 m) cao **B1**

**Answer: A) 22 m**

## Question 54

correct option C (250) cao **B1**

**Answer: C) 250**

## Question 55

correct option D (140 cm²) cao **B1**

**Answer: D) 140 cm²**

## Question 56

correct option E (19 m) cao **B1**

**Answer: E) 19 m**

## Question 57

correct option D (50 cm²) cao **B1**

**Answer: D) 50 cm²**


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## Question 58

correct option B (40 cm) cao **B1**

**Answer: B) 40 cm**

## Question 59

correct option A (200) cao **B1**

**Answer: A) 200**

## Question 60

correct option E (189 cm²) cao **B1**

**Answer: E) 189 cm²**

## Question 61

correct option A (26 cm) cao **B1**

**Answer: A) 26 cm**

## Question 62

correct option E (9 m) cao **B1**

**Answer: E) 9 m**

## Question 63

correct option D (12 m) cao **B1**

**Answer: D) 12 m**

## Question 64

correct option C (189 cm²) cao **B1**

**Answer: C) 189 cm²**

## Question 65

correct option B (34 cm) cao **B1**

**Answer: B) 34 cm**

## Question 66

correct option B (880 m²) cao **B1**

**Answer: B) 880 m²**

## Question 67

correct option C (40 cm²) cao **B1**

**Answer: C) 40 cm²**

## Question 68

correct option A (24 cm) cao **B1**

**Answer: A) 24 cm**

## Question 69

correct option D (76 m) cao **B1**

**Answer: D) 76 m**

## Question 70

correct option A (60) cao **B1**

**Answer: A) 60**

## Question 71

correct option E (200 cm²) cao **B1**

**Answer: E) 200 cm²**

## Question 72

correct option C (38 cm) cao **B1**

**Answer: C) 38 cm**

## Question 73

correct option D (14 m) cao **B1**

**Answer: D) 14 m**

## Question 74

correct option C (44 cm²) cao **B1**

**Answer: C) 44 cm²**

## Question 75

correct option D (21 m) cao **B1**

**Answer: D) 21 m**

## Question 76

correct option A (144 cm²) cao **B1**

**Answer: A) 144 cm²**

## Question 77

side length found: 36 / 4 = 9 cm **M1**

81 cm² cao **A1**

**Answer: 81 cm²**

## Question 78

correct option B (14 m) cao **B1**

**Answer: B) 14 m**

## Question 79

correct option D (76 cm²) cao **B1**

**Answer: D) 76 cm²**

## Question 80

correct option B (78 m) cao **B1**

**Answer: B) 78 m**

## Question 81

correct option C (13 m) cao **B1**

**Answer: C) 13 m**

## Question 82

correct option A (532 cm²) cao **B1**

**Answer: A) 532 cm²**

## Question 83

correct option A (42 m) cao **B1**

**Answer: A) 42 m**

## Question 84

correct option E (299 m²) cao **B1**

**Answer: E) 299 m²**

## Question 85

correct option B (308 cm²) cao **B1**

**Answer: B) 308 cm²**

## Question 86

0.5 x 12 x 7 seen **M1**

42 cm² cao **A1**

**Answer: 42 cm²**


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## Question 87

correct option C (21 m) cao **B1**

**Answer: C) 21 m**

## Question 88

correct option B (120 cm²) cao **B1**

**Answer: B) 120 cm²**

## Question 89

correct option D (86 m) cao **B1**

**Answer: D) 86 m**

## Question 90

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

**Answer: E) 48**

## Question 91

correct option A (96 cm²) cao **B1**

**Answer: A) 96 cm²**

## Question 92

correct option C (25 m) cao **B1**

**Answer: C) 25 m**

## Question 93

correct option C (45 cm²) cao **B1**

**Answer: C) 45 cm²**

## Question 94

correct option B (116 m) cao **B1**

**Answer: B) 116 m**

## Question 95

correct option A (14 m) cao **B1**

**Answer: A) 14 m**

## Question 96

10 x 6 seen **M1**

60 cm² cao **A1**

**Answer: 60 $cm^2$**

## Question 97

correct option E (126 cm²) cao **B1**

**Answer: E) 126 cm²**

## Question 98

correct option A (18 m) cao **B1**

**Answer: A) 18 m**

## Question 99

correct option B (186 m²) cao **B1**

**Answer: B) 186 m²**

## Question 100

correct option D (76 m) cao **B1**

**Answer: D) 76 m**

## Question 101

correct option C (75) cao **B1**

**Answer: C) 75**

## Question 102

correct option B (30 cm²) cao **B1**

**Answer: B) 30 cm²**

## Question 103

correct option D (19 m) cao **B1**

**Answer: D) 19 m**

## Question 104

correct option A (112 cm²) cao **B1**

**Answer: A) 112 cm²**

## Question 105

8 + 12 = 20 seen **M1**

0.5 x 20 x 5 seen (oe) **M1**

50 cm² cao **A1**

**Answer: 50 $cm^2$**

## Question 106

correct option E (375) cao **B1**

**Answer: E) 375**

## Question 107

correct option B (240 cm²) cao **B1**

**Answer: B) 240 cm²**

## Question 108

correct option D (84 m) cao **B1**

**Answer: D) 84 m**

## Question 109

correct option C (23 m) cao **B1**

**Answer: C) 23 m**

## Question 110

correct option A (182 cm²) cao **B1**

**Answer: A) 182 cm²**

## Question 111

correct option B (86 m) cao **B1**

**Answer: B) 86 m**

## Question 112

correct option A (17 m) cao **B1**

**Answer: A) 17 m**

## Question 113

correct option E (30 m) cao **B1**

**Answer: E) 30 m**

## Question 114

rectangle area 10 x 6 = 60 cm² **M1**

triangle area 0.5 x 10 x 4 = 20 cm² **M1**

80 cm² cao (ft their two areas added) **A1**

**Answer: 80 $cm^2$**


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## Question 115

correct option D (600 $m^2$) cao **B1**

**Answer: D) 600 $m^2$**

## Question 116

correct option A (105 $cm^2$) cao **B1**

**Answer: A) 105 $cm^2$**

## Question 117

correct option C (60 m) cao **B1**

**Answer: C) 60 m**

## Question 118

correct option D (19 m) cao **B1**

**Answer: D) 19 m**

## Question 119

correct option E (68 $cm^2$) cao **B1**

**Answer: E) 68 $cm^2$**

## Question 120

correct option B (15 m) cao **B1**

**Answer: B) 15 m**


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