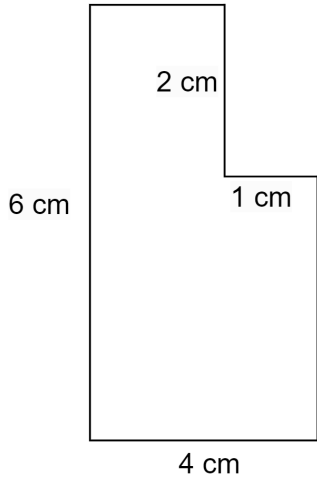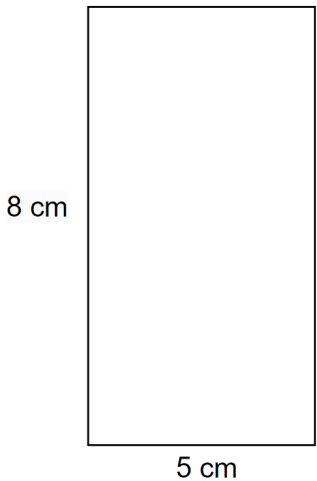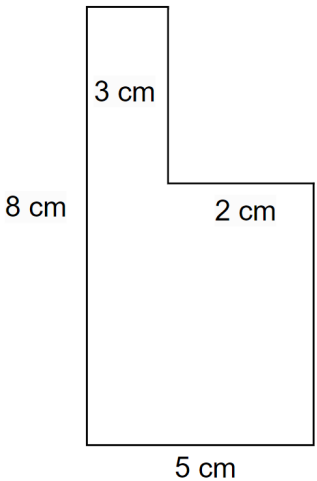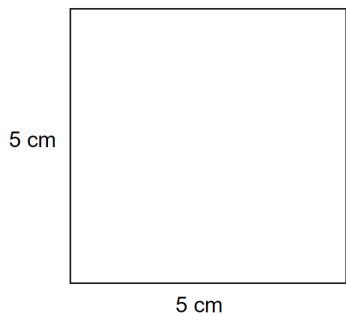# Year 6 Worksheet 9 - Area and perimeter
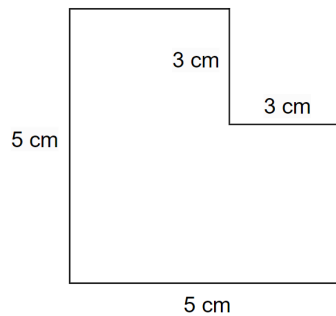
Question 1: Find the perimeter and area of the following.

6 cm

4 cm

Area   = _____

Perimeter = _____

2 cm

6 cm

1 cm

4 cm

Area   = _____

Perimeter = _____

8 cm

5 cm

Area   = _____

Perimeter = _____

3 cm
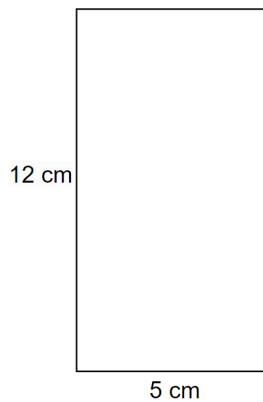
8 cm

2 cm

5 cm

Area   = _____

Perimeter = _____

Shape 1 (top left): Square
5 cm (left side), 5 cm (bottom)

Area = _____

Perimeter = _____

Shape 2 (top right): L-shape
3 cm, 3 cm, 5 cm (left side), 5 cm (bottom)

Area = _____

Perimeter = _____

Shape 3 (middle left): Rectangle
12 cm (left side), 5 cm (bottom)

Area = _____

Perimeter = _____

Shape 4 (middle right): L-shape
4 cm, 3 cm, 12 cm (left side), 5 cm (bottom)

Area = _____

Perimeter = _____

Shape 5 (bottom left): Square
11 cm (left side), 11 cm (bottom)

Area = _____

Perimeter = _____

Shape 6 (bottom right): L-shape
8 cm, 7 cm, 11 cm (left side), 11 cm (bottom)
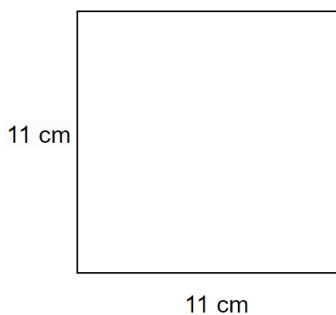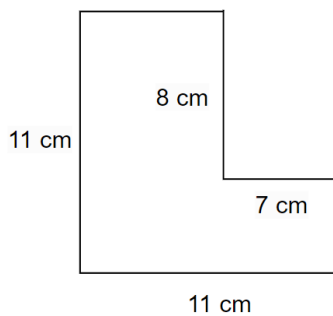
Area = _____

Perimeter = _____

Question 2: Find the perimeter and area of the following.
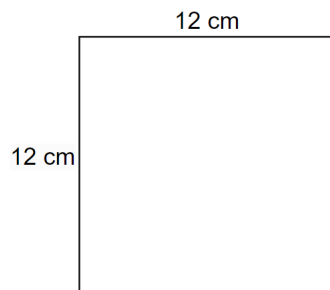
4 cm

6 cm

Area = _____

Perimeter = _____

4 cm

6 cm   8 cm

Area = _____

Perimeter = _____

12 cm

12 cm

Area = _____

Perimeter = _____

12 cm

12 cm   14 cm

Area = _____

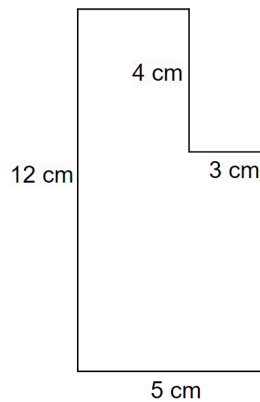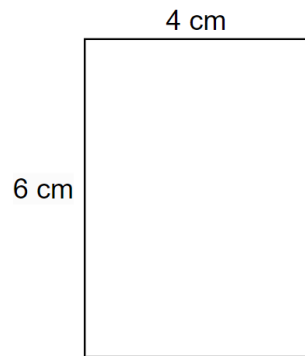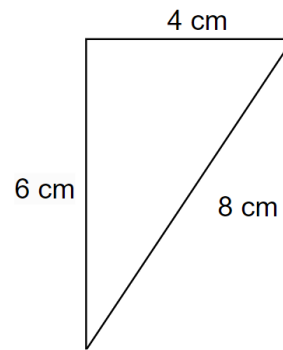Perimeter = _____

6 cm

13 cm

Area = _____

Perimeter = _____

6 cm

13 cm   15 cm

Area = _____

Perimeter = _____

16 cm

16 cm

Area   = _____

Perimeter = _____

16 cm

16 cm   **18 cm**

Area   = _____

Perimeter = _____

8 cm

15 cm

Area   = _____

Perimeter = _____

8 cm

15 cm   **17 cm**

Area   = _____

Perimeter = _____

14 cm

14 cm

Area   = _____

Perimeter = _____

14 cm

14 cm   **16 cm**
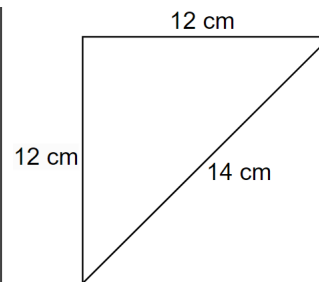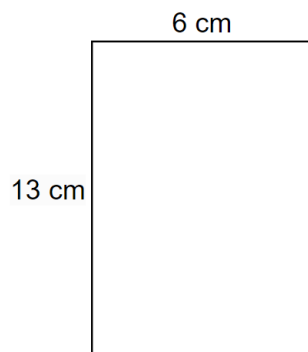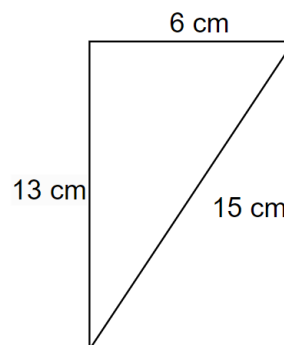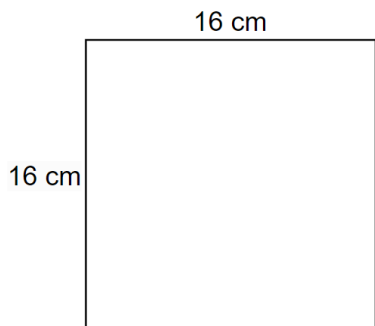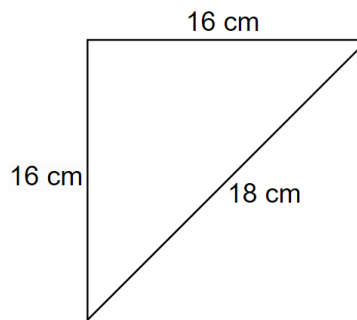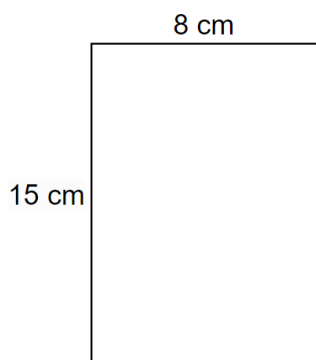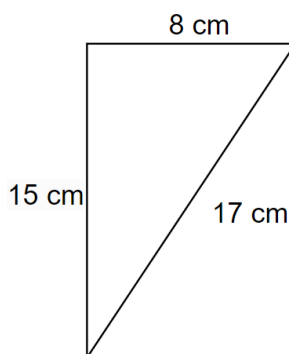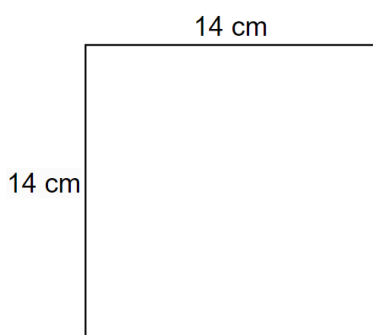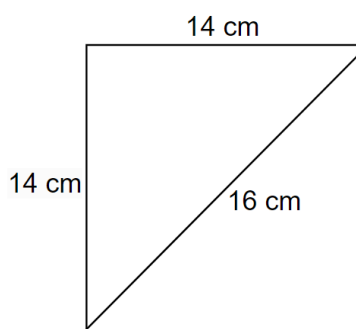
Area   = _____

Perimeter = _____

Question 3: Answer the following.

1	The perimeter of a rectangle is 30 meters, and its length is 10 meters. What is the width of the rectangle?
2	The perimeter of a square is 48 centimeters. Calculate its side length. Find two rectangles with the same area.
3	The area of a rectangle is 72 square units, and its width is 8 units. Find the length of the rectangle. Identify another shape with the same area.
4	Two rectangles have the same area. If the first rectangle has dimensions 10 by 5 units, and the second rectangle has a width of 2 units, find the length of the second rectangle.

5	The perimeter of a rectangle is 26 meters, and its width is 5 meters. Find the length of the rectangle. Find a rectangle with the same area.
6	The area of a square is 64 square units. Calculate its side length. . Find another two rectangles with the same perimeter.
7	The area of a rectangle is 90 square centimeters, and its length is 18 centimeters. Find the width of the rectangle. Find another shape with the same perimeter.

8	The area of a square is 144 square meters. Determine its side length. Find 3 more rectangles with the same perimeter.
9	The perimeter of a rectangle is 36 meters, and its width is 6 meters. Find the length of the rectangle. Identify another rectangle with the same area.
10	Two rectangles have the same area. If the first rectangle has dimensions 21 by 7 units, and the second rectangle has a width of 3 units, find the length of the second rectangle.

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Answer Key

Question 1: Find the perimeter and area of the following.

Area = 24 Perimeter = 20	Area = 22 Perimeter = 20
Area = 40 Perimeter = 26	Area = 34 Perimeter = 26
Area = 25 Perimeter = 20	Area = 16 Perimeter = 20
Area = 60 Perimeter = 34	Area = 48 Perimeter = 34
Area = 121 Perimeter = 44	Area = 65 Perimeter = 44

Question 2: Find the perimeter and area of the following.

Area = 24 Perimeter = 20	Area = 12 Perimeter = 18
Area = 144 Perimeter = 48	Area = 72 Perimeter = 38
Area = 78 Perimeter = 38	Area = 39 Perimeter = 34
Area = 256 Perimeter = 64	Area = 128 Perimeter = 50
Area = 120 Perimeter = 46	Area = 60 Perimeter = 40
Area = 196 Perimeter = 56	Area = 98 Perimeter = 44

Question 3:

1	Another rectangle: Length 5 meters, width 10 meters.
2	Square: Length 12 centimeters, width 12 centimeters.
3	Another shape: Square with side length 12 units.
4	Length of second rectangle: 25 units.
5	Another rectangle: Length 8 meters, width 5 meters.
6	Rectangle: Length 8 units, width 16 units.
7	Another shape: Square with side length 15 centimeters.
8	Rectangle: Length 12 meters, width 24 meters.
9	Another rectangle: Length 12 meters, width 6 meters.
10	Rectangle: Length 11 units, width 22 units.
11	Another rectangle: Length 18 meters, width 18 meters.
12	Rectangle: Length 15 centimeters, width 15 centimeters.
13	Another shape: Square with side length 12 units.
14	Rectangle: Length 11 centimeters, width 22 centimeters.
15	Length of second rectangle: 49 units.