Area of an Obtuse Triangle Worksheet

Geometry

Grades 6 to 8

Questions

Name: ....

Date: ....

1 Find the area of the triangle:

5m

12m
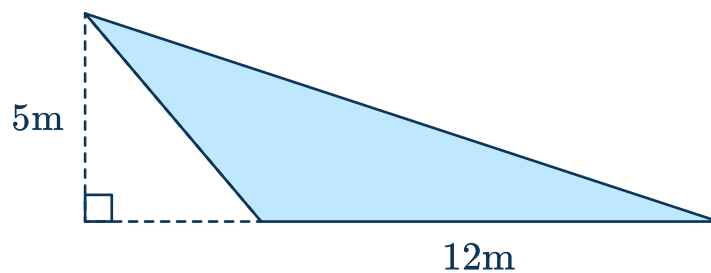
Answer

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2 Calculate the area of the triangle below:

4m

9m
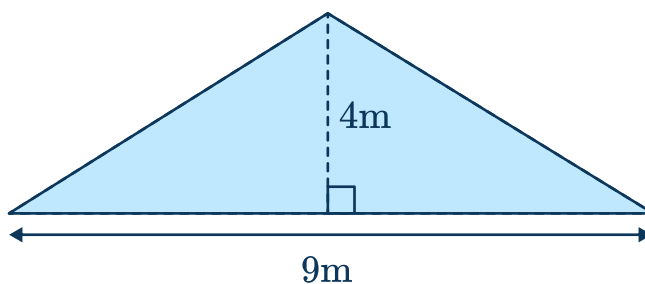
Answer

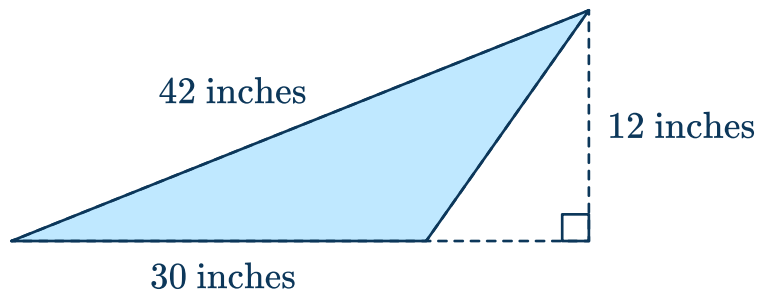**3** Triangle ABC has a base of 15 cm and a height of 7 cm. Find the area.

Answer

4 Shown below is an obtuse triangle with base 28 cm and height 5 cm. Find the area.

19cm

7cm

5cm

28cm
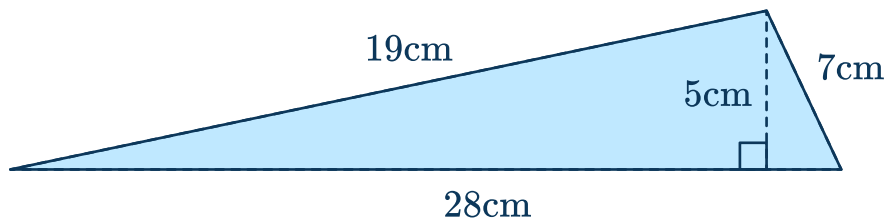
Answer

5 A triangle has a base length of 30 in and height of 12 in. What is its area?

42 inches

12 inches

30 inches

Answer

6 Find the area of this triangle:
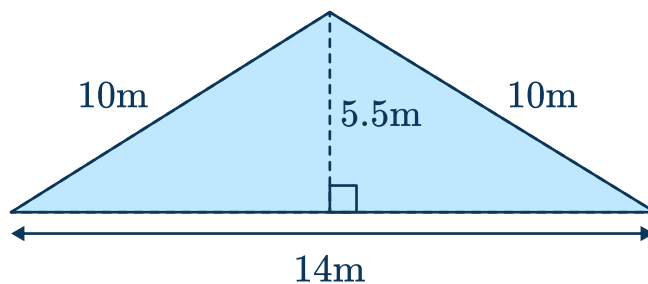
10m

5.5m

10m

14m

Answer

7   Calculate the area of the triangle below:
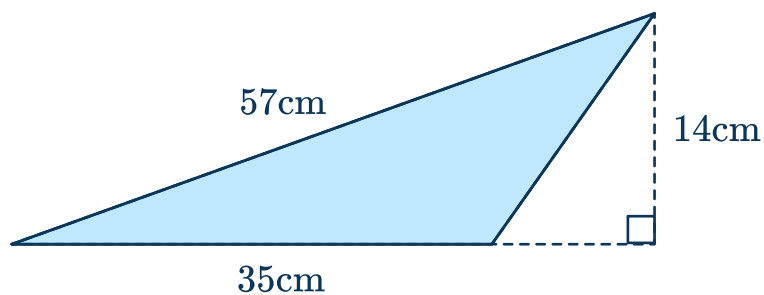
19 in

13 in

8 in
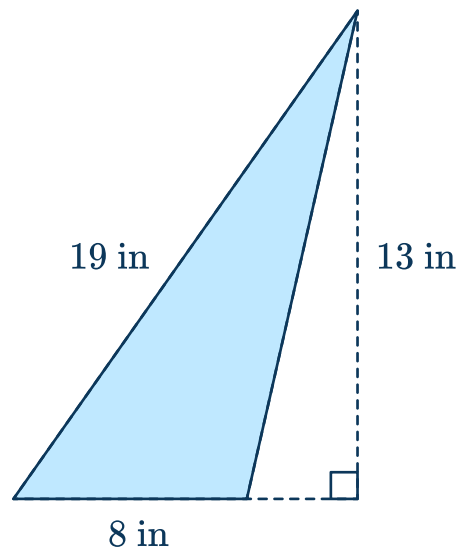
Answer

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8   Triangle DEF is obtuse with a base of 18 m and a height of 10 m. What is its area?
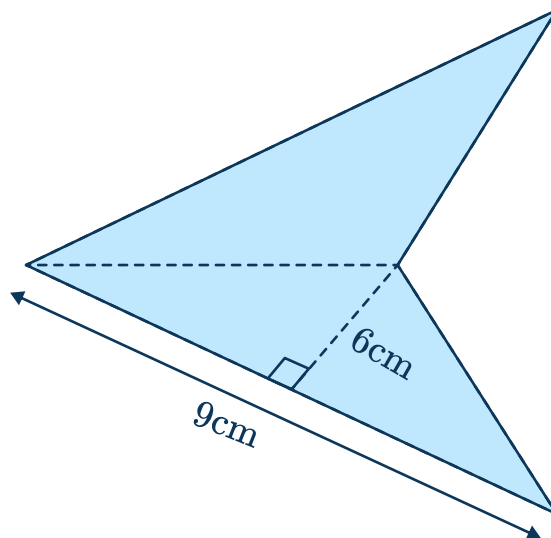
Answer

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9   Calculate the area of the triangle.

57cm

14cm

35cm

Answer

10 The area of an obtuse triangle is 60 m². Its height is 15 m. Find the length of its base.

Answer


11 Below is an arrowhead shape formed by two congruent obtuse triangles. Each triangle has a base of 9 cm and height of 6 cm. Find the area of the arrowhead.

6cm

9cm

Answer

12 Carrie and Louise are in math class. They have to find the area of the triangle below. Carrie says that the base of the triangle is 10 inches and the height is 18 inches. She calculates the area to be, 90 in². Louise says that the base is 10 inches and the height is 16 inches. She calculates the area to be 80 in². Who calculated the area correctly? Explain.

16 in

18 in

10 in
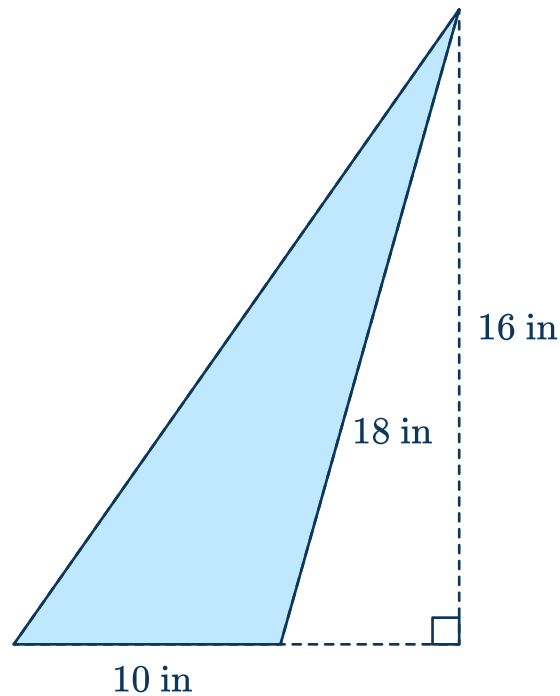
Answer

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13 A triangular garden has a height of 125 m and a base of 280 m. Each flower bed requires 1,750 m². How many flower beds can fit in the garden?

125m

280m
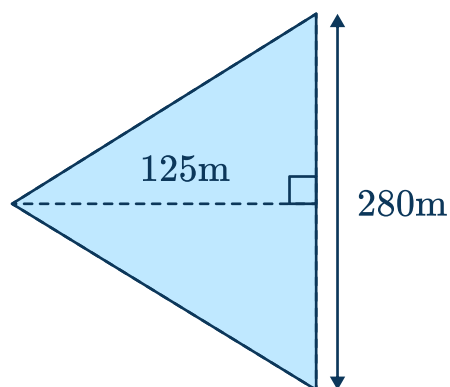
Answer

14 The area of a triangle is 120 cm² and the height is 30 cm. Karen says the base is 4 cm and Jen says the base is 8 cm. Who is correct? Explain.
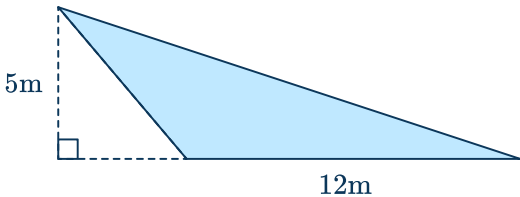
Answer

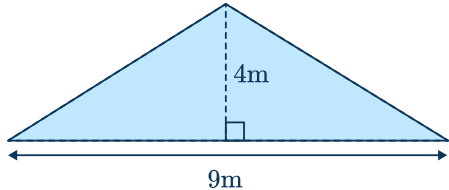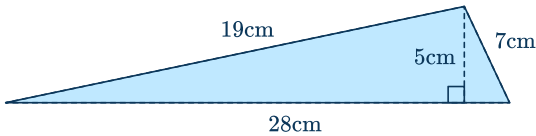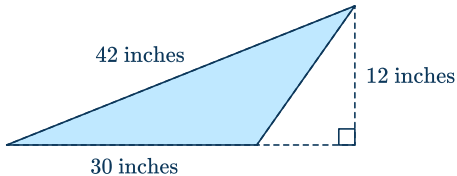**15** Maddie is making a triangular sign. She wants to paint the sign yellow. One small bottle of paint covers 10 cm². If the triangle has a base measure of 20 cm and a height measure of 6 cm, how many small bottles of paint does she need?
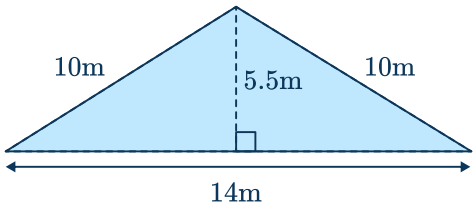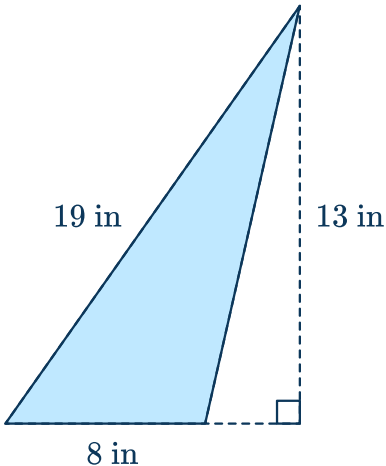
Answer
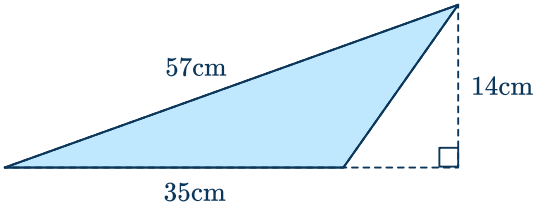
Answers
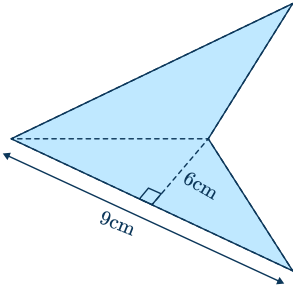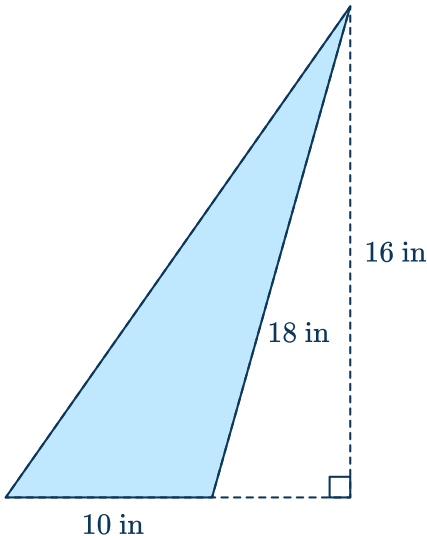
Question number	Question	Answers	Standard
1	Find the area of the triangle: 5m 12m	30 m²	6.G.A.1
2	Calculate the area of the triangle below: 4m 9m	18 m²	6.G.A.1
3	Triangle ABC has a base of 15 cm and a height of 7 cm. Find the area.	52.5 cm²	6.G.A.1
4	Shown below is an obtuse triangle with base 28 cm and height 5 cm. Find the area. 19cm 7cm 5cm 28cm	70 cm²	6.G.A.1
5	A triangle has a base length of 30 in and height of 12 in. What is its area? 42 inches 12 inches 30 inches	180 in²	6.G.A.1
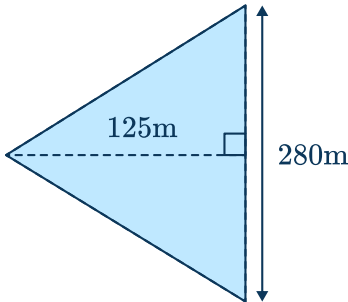
Area of an Obtuse Triangle Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
6	Find the area of this triangle: 10m 5.5m 10m 14m	38.5 m²	38.5 m²
7	Calculate the area of the triangle below: 19 in 13 in 8 in	52 in²	38.5 m²
8	Triangle DEF is obtuse with a base of 18 m and a height of 10 m. What is its area?	90 m²	38.5 m²
9	Calculate the area of the triangle. 57cm 14cm 35cm	245 cm²	38.5 m²
10	The area of an obtuse triangle is 60 m². Its height is 15 m. Find the length of its base.	8 m	38.5 m²

Area of an Obtuse Triangle Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
11	Below is an arrowhead shape formed by two congruent obtuse triangles. Each triangle has a base of 9 cm and height of 6 cm. Find the area of the arrowhead.	54 cm²	6.G.A.1
12	Carrie and Louise are in math class. They have to find the area of the triangle below. Carrie says that the base of the triangle is 10 inches and the height is 18 inches. She calculates the area to be, 90 in². Louise says that the base is 10 inches and the height is 16 inches. She calculates the area to be 80 in². Who calculated the area correctly? Explain.	Louise calculated the area of the triangle correctly because the height of the triangle is 16 inches not 18 inches. The height of a triangle forms a right angle with the base.	6.G.A.1

Area of an Obtuse Triangle Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
13	A triangular garden has a height of 125 m and a base of 280 m. Each flower bed requires 1,750 m². How many flower beds can fit in the garden?	10 flower beds	6.G.A.1
14	The area of a triangle is 120 cm² and the height is 30 cm. Karen says the base is 4 cm and Jen says the base is 8 cm. Who is correct? Explain.	Jen is correct because using guess and check, $120 = \frac{1}{2}(30)(base)$ $8 = base$ 8 cm	6.G.A.1
15	Maddie is making a triangular sign. She wants to paint the sign yellow. One small bottle of paint covers 10 cm². If the triangle has a base measure of 20 cm and a height measure of 6 cm, how many small bottles of paint does she need?	Area = 60 cm² $60 \div 10 = 6$ 6 small bottles of paint	6.G.A.1

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