Area of a triangle Worksheet

Geometry

Grades 6 to 8

Questions

Name: ....

Date: ....

1 Find the area of the triangle:

12 in   13 in

5 in
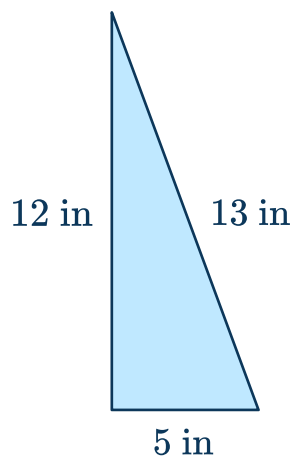
Answer

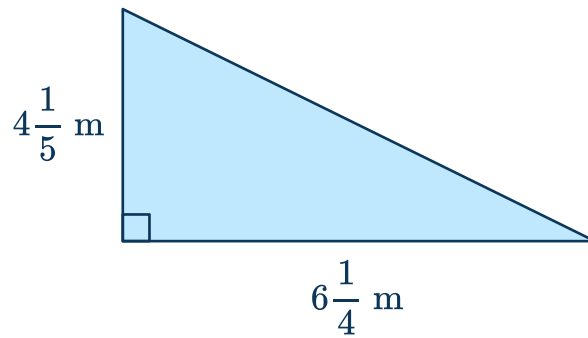**2** Calculate the area of the triangle below:

7cm

12cm
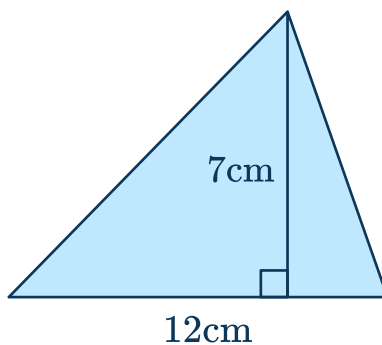
Answer

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3 A triangle has a base length of 14.5 cm and a height of 3 cm.
What is the area of the this triangle?

Answer

4 Find the area of the triangle.
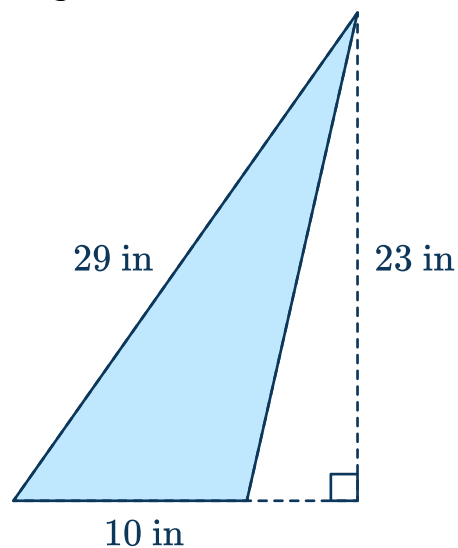
$4\frac{1}{5}$ m

$6\frac{1}{4}$ m

Answer

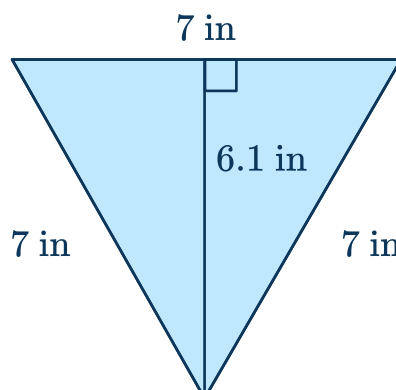**5** Find the area of a triangle that has a base of $9\frac{2}{3}$ inches and a height of $3\frac{1}{3}$ inches.

Answer

---

6 Find the area of this triangle:

29 in

23 in

10 in

Answer

---

7 Find the area of the triangle.

7 in

6.1 in

7 in

7 in

Answer

8   Triangle DEF is obtuse with a base of 3 m and a height of 10 m. What is its area?
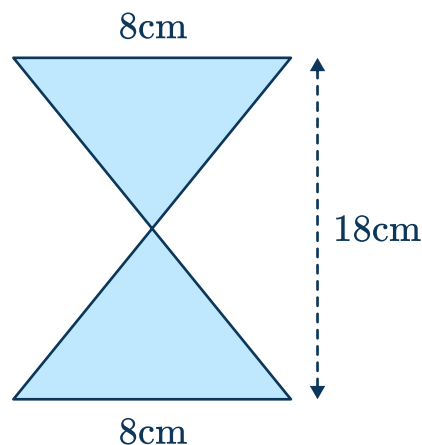
Answer

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9   Calculate the area of the triangle.

26 in

28 in

20 in
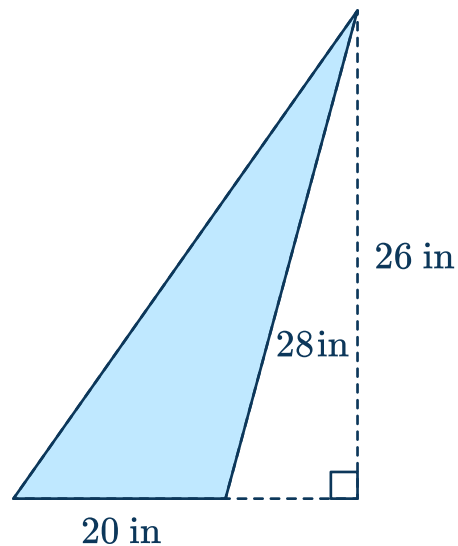
Answer

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10   The area of a triangle is 50 m². Its height is 10 m. What is the length of the height of this triangle?

Answer

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11   Find the total area of the figure.

8cm

18cm

8cm

Answer

12 Heather and Laura are working together to find the area of the given triangle. Heather calculates the area of the triangle to be 93.5 in² and Laura calculates the area to be 82.5 in². Who is correct and why?


15 in

17 in

11 in

Answer

13 Damian is building a triangular patio has a height of 135 ft and a base of 380 ft. The large stones he is using to build the patio each have an area of 230 ft². Approximately, how many stones should he use to build the patio

Answer

14 The area of a triangle is 240 cm² and the height is 40 cm. Karen says the base is 6 cm and Jen says the base is 12 cm. Who is correct? Explain.
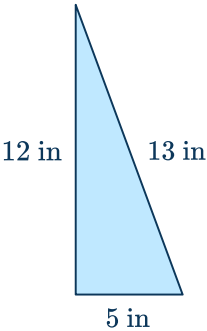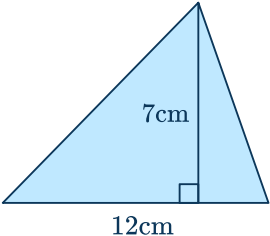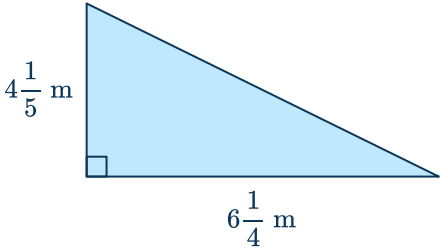
Answer

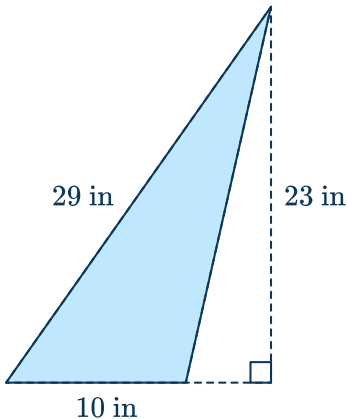**15** Find the total area of the figure.
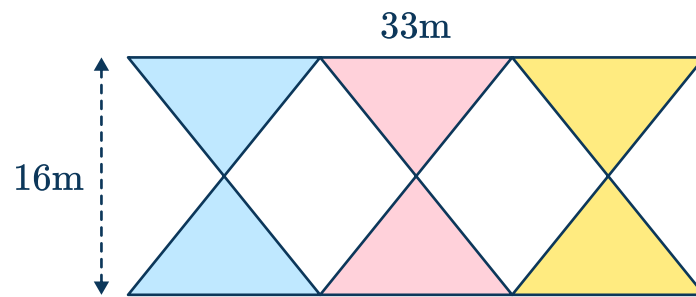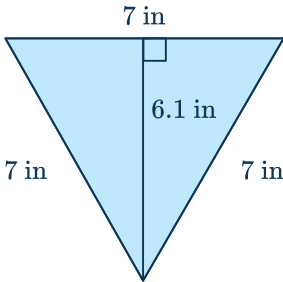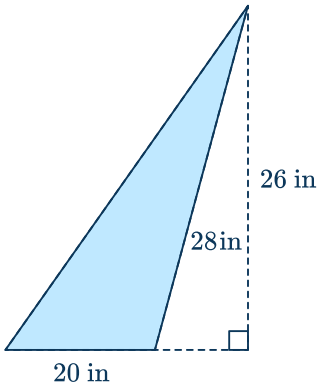
Answer
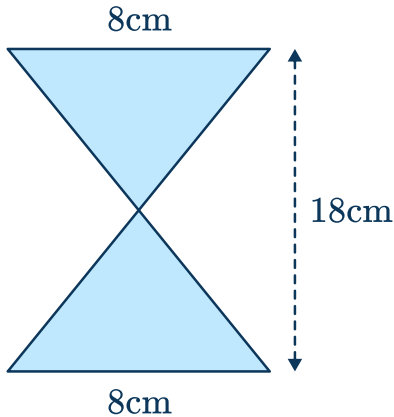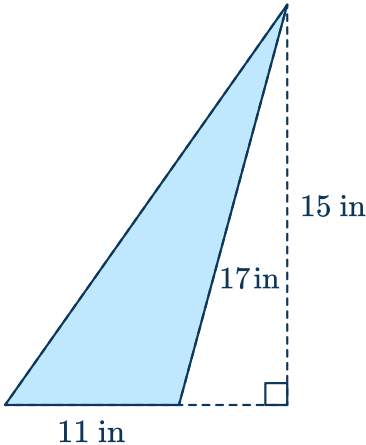
Answers

Question number	Question	Answers	Standard
1	Find the area of the triangle: 12 in 13 in 5 in	30 in²	6.G.A.1
2	Calculate the area of the triangle below: 7cm 12cm	42 cm²	6.G.A.1
3	A triangle has a base length of 14.5 cm and a height of 3 cm. What is the area of the this triangle?	21.75 cm²	6.G.A.1
4	Find the area of the triangle. $4\frac{1}{5}$ m $6\frac{1}{4}$ m	$13\frac{1}{8}$ m²	6.G.A.1
5	Find the area of a triangle that has a base of $9\frac{2}{3}$ inches and a height of $3\frac{1}{3}$ inches.	Answer $\frac{1}{9}$	6.G.A.1
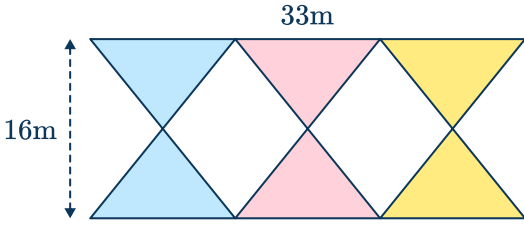
Area of a triangle Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
6	Find the area of this triangle: 29 in 23 in 10 in	115 in²	6.G.A.1
7	Find the area of the triangle. 7 in 6.1 in 7 in 7 in	21.35 in²	6.G.A.1
8	Triangle DEF is obtuse with a base of 3 m and a height of 10 m. What is its area?	15 m²	6.G.A.1
9	Calculate the area of the triangle. 26 in 28 in 20 in	260 in²	6.G.A.1
10	The area of a triangle is 50 m². Its height is 10 m. What is the length of the height of this triangle?	10 m	6.G.A.1

Area of a triangle Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
11	Find the total area of the figure. 8cm 18cm 8cm	72 cm²	6.G.A.1
12	Heather and Laura are working together to find the area of the given triangle. Heather calculates the area of the triangle to be 93.5 in² and Laura calculates the area to be 82.5 in². Who is correct and why? 15 in 17 in 11 in	Laura is correct in calculating the area of the triangle because the base is 11 inches and the height of the triangle is 15 inches, So the area is, $A = \frac{1}{2}$ x 11 x 15 A = 82.5 in²	6.G.A.1
13	Damian is building a triangular patio has a height of 135 ft and a base of 380 ft. The large stones he is using to build the patio each have an area of 230 ft². Approximately, how many stones should he use to build the patio	He will need about 112 stones.	6.G.A.1

Area of a triangle Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
14	The area of a triangle is 240 cm² and the height is 40 cm. Karen says the base is 6 cm and Jen says the base is 12 cm. Who is correct? Explain.	Jen is correct because using guess and check, $240 = \frac{1}{2}(40)(\text{base})$ 240 = 20(base) 12 = base 12cm	6.G.A.1
15	Find the total area of the figure. 	264 m²	6.G.A.1

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