

Shapes – Same Area

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1a. Warren says,

I can draw a four-sided and a six-sided rectilinear shape with an area of 12cm^2 .



Draw two shapes to prove that Warren is correct.



PS

1b. Cailyn says,

I can draw a four-sided and a six-sided rectilinear shape with an area of 16cm^2 .

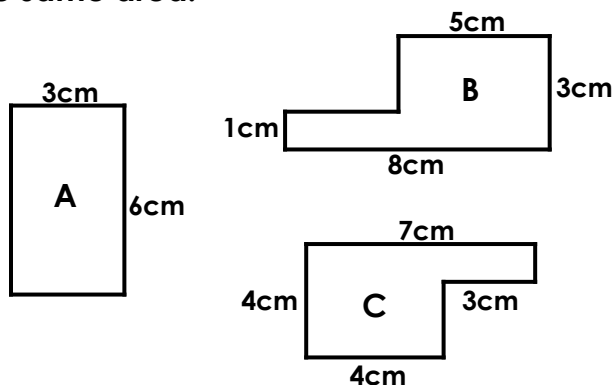


Draw two shapes to prove that Cailyn is correct.



PS

2a. True or false? All of these shapes have the same area.



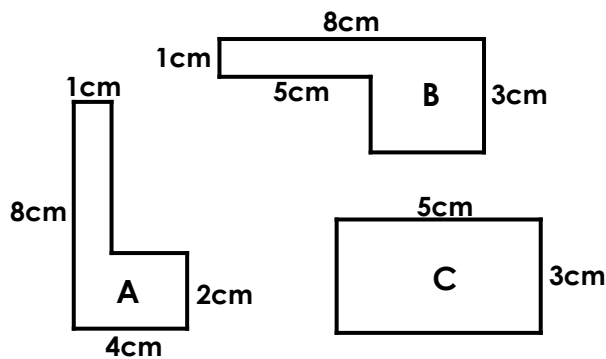
Explain your answer.



not to scale

R

2b. True or false? All of these shapes have the same area.



Explain your answer.



not to scale

R

3a. Zak is experimenting with the area of rectangles.

He says,

“If a rectangle has an area of 24cm^2 , the length of it could be 6cm.”

Is he correct? Explain why.



R

3b. Ruby is experimenting with the area of rectangles.

She says,

“If a rectangle has a length of 8cm, and the unknown length is an integer, the area could be 27cm^2 .”

Is she correct? Explain why.



R

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4a. Suzi says,



I can draw a six-sided and an eight-sided rectilinear shape with an area of 18cm^2 .

Draw two shapes to prove that Suzi is correct. Your shapes must include some half squares.



PS

4b. Jasper says,



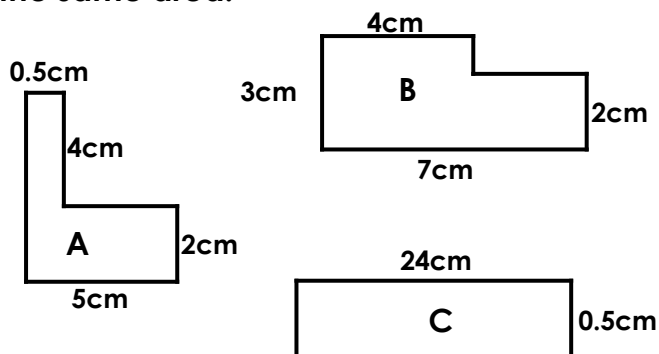
I can draw a six-sided and an eight-sided rectilinear shape with an area of 22cm^2 .

Draw two shapes to prove that Jasper is correct. Your shapes must include some half squares.



PS

5a. True or false? All of these shapes have the same area.



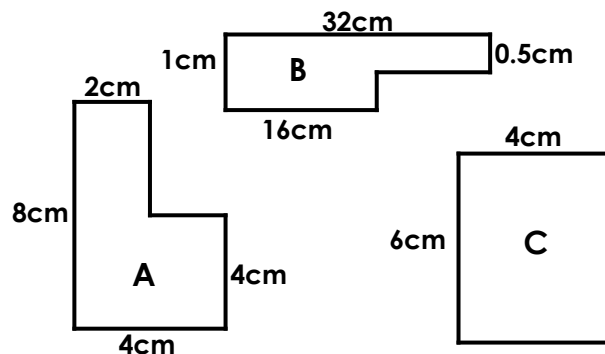
Explain your answer.



not to scale

R

5b. True or false? All of these shapes have the same area.



Explain your answer.



not to scale

R

6a. Taylor is experimenting with the area of rectilinear shapes.

She says,

“If a shape has an area of 19cm^2 , the length of it could be 38cm .”

Is she correct? Explain why.



R

6b. Alfie is experimenting with the area of rectilinear shapes.

He says,

“If a shape has a length of 8.5cm , the area could be 33cm^2 .”

Is he correct? Explain why.



R

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7a. Reilly says,



I can draw a six-sided and an eight-sided rectilinear shape with an area of 26.5cm^2 .

Draw two shapes to prove that Reilly is correct. Your shapes must include some half or quarter squares.



PS

7b. Maggie says,



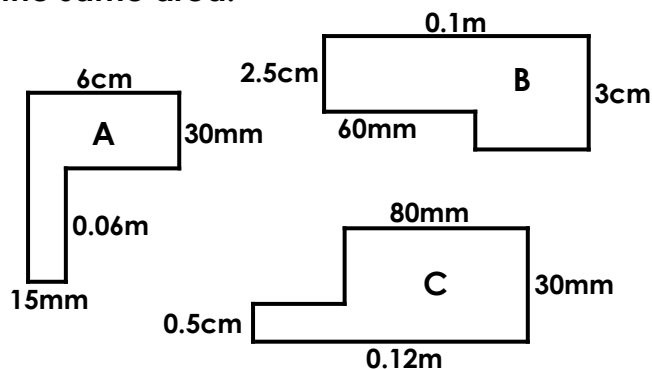
I can draw a six-sided and an eight-sided rectilinear shape with an area of 30.25cm^2 .

Draw two shapes to prove that Maggie is correct. Your shapes must include some half or quarter squares.



PS

8a. True or false? All of these shapes have the same area.



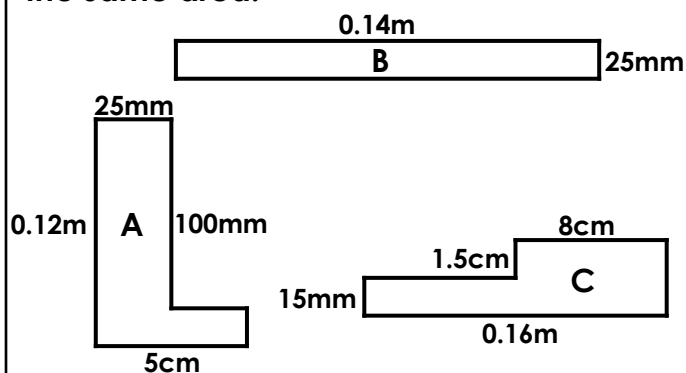
Explain your answer.



not to scale

R

8b. True or false? All of these shapes have the same area.



Explain your answer.



not to scale

R

9a. Nate is experimenting with the area of rectilinear shapes.

He says,

“If a shape has an area of 36cm^2 , the length of it could be 65mm .”

Is he correct? Explain why.



R

9b. Isabelle is experimenting with the area of rectilinear shapes.

She says,

“If a shape has a length of 25cm , the area could be 7cm^2 .”

Is she correct? Explain why.



R