Pythagoras practice

Use Pythagoras’ Theorem and your knowledge of triangles, to help you answer the following questions.

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| 1. What is the length of side a?

Right angle triangle with hypotenuse of 20 and sides of 7 and a | 1. What is the perimeter of the triangle?

Right angle triangle with hypotenuse of 20 and sides of 7 and a | 1. What is the area of the triangle?

Right angle triangle with hypotenuse of 13 and sides of 12 | 1. What is the area of the triangle?

Right angle triangle with hypotenuse of b and sides of 7 and 5 |

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| 1. What is the perimeter of the triangle?

 | 1. What is the area of the triangle?

 | 1. The area of the triangle is 120 $cm^{2}$, what is its height?

 | 1. The area of the triangle is 120 $cm^{2}$, what is its perimeter?

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Outcomes

* MA4-1WM communicates and connects mathematical ideas using appropriate terminology, diagrams and symbols
* MA4-2WM applies appropriate mathematical techniques to solve problems
* MA4-16MG applies Pythagoras’ theorem to calculate side lengths in right-angled triangles, and solves related problems