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| **Finding the Length of the Hypotenuse using Pythagoras’ Theorem** |
| **(a)** Find $x$ to 1 decimal place | **(b)** Find $x$ | **(c)** Find $y$ to 1 decimal place |
|  | $$x^{2}=5^{2}+8^{2}$$$$x^{2}=89$$$$x=\sqrt{89}$$$$x=9.4 cm (1 dp)$$ |  | $$x^{2}=5^{2}+12^{2}$$ |  | $$y^{2}=12^{2}+14^{2}$$ |
| **(d)** Find $x$ | **(e)** Find $y$ to 1 decimal place | **(f)** Find $x$ to 1 decimal place |
|  |  |  |  |  |  |
| **(g)** Find$ x$ to 1 decimal place | **(h)** Find $y$ | **(i)** Find $y$ to 1 decimal place |
|  |  |  |  |  |  |
| **(j)** Find $x$, leaving your answer as a surd | **(k)** Find $y$, leaving your answer as a surd | **(l)** Find $x$, leaving your answer as a surd |
|  |  |  |  |  |  |