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| **Finding the Length of a Short Side using Pythagoras’ Theorem** |
| **(a)** Find $x$ to 1 decimal place | **(b)** Find $x$ | **(c)** Find $y$ to 1 decimal place |
|  | $$9^{2}=x^{2}+4^{2}$$$$x^{2}=9^{2}-4^{2}$$$$x^{2}=65$$$$x=\sqrt{65}$$$$x=8.1 cm (1 dp)$$ |  | $$20^{2}=x^{2}+16^{2}$$$$x^{2}=20^{2}-16^{2}$$ |  | $$7^{2}=y^{2}+4^{2}$$$$y^{2}=7^{2}-4^{2}$$ |
| **(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 |
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