Math worksheet on *'Pythagorean Equation from Values - Either Missing Length (Radical) (Level 1)'*. Part of a broader unit on *'Pythagoras - Foundations'*

Learn online: app.mobius.academy/math/units/pythagoras_foundations/

1 Find the radical (square root) for the value of 'a' in this equation

$$a^2 + 4 = 16$$

a	$a = \sqrt{44}$	**b**	$a = \sqrt{36}$
c	$a = \sqrt{28}$	**d**	$a = \sqrt{12}$

2 Find the radical (square root) for the value of 'b' in this equation

$$9 + b^2 = 81$$

a	$b = \sqrt{72}$	**b**	$b = \sqrt{153}$
c	$b = \sqrt{234}$	**d**	$b = \sqrt{171}$

3 Find the radical (square root) for the value of 'b' in this equation

$$9 + b^2 = 49$$

a	$b = \sqrt{138}$	**b**	$b = \sqrt{107}$
c	$b = \sqrt{89}$	**d**	$b = \sqrt{40}$

4 Find the radical (square root) for the value of 'b' in this equation

$$16 + b^2 = 25$$

a	**b**	**c**	**d**
$b = \sqrt{9}$	$b = \sqrt{34}$	$b = \sqrt{41}$	$b = \sqrt{59}$

5 Find the radical (square root) for the value of 'b' in this equation

$$16 + b^2 = 81$$

a	$b = \sqrt{227}$	**b**	$b = \sqrt{97}$
c	$b = \sqrt{259}$	**d**	$b = \sqrt{178}$
e	$b = \sqrt{65}$		

6 Find the radical (square root) for the value of 'b' in this equation

$$16 + b^2 = 36$$

a	$b = \sqrt{20}$	**b**	$b = \sqrt{56}$
c	$b = \sqrt{92}$	**d**	$b = \sqrt{88}$
e	$b = \sqrt{124}$		

7 Find the radical (square root) for the value of 'a' in this equation

$$a^2 + 25 = 49$$

a	$a = \sqrt{122}$	**b**	$a = \sqrt{24}$
c	$a = \sqrt{123}$	**d**	$a = \sqrt{172}$