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

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

$$5^2 + b^2 = 7^2$$

a	$b = \sqrt{24}$	**b**	$b = \sqrt{172}$
c	$b = \sqrt{122}$	**d**	$b = \sqrt{73}$

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

$$a^2 + 6^2 = 9^2$$

a	$a = \sqrt{126}$	**b**	$a = \sqrt{45}$
c	$a = \sqrt{207}$		

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

$$2^2 + b^2 = 9^2$$

a	$b = \sqrt{239}$	**b**	$b = \sqrt{85}$
c	$b = \sqrt{158}$	**d**	$b = \sqrt{77}$
e	$b = \sqrt{166}$		

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

$$4^2 + b^2 = 5^2$$

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

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

$$3^2 + b^2 = 4^2$$

a	**b**	**c**	**d**
$b = \sqrt{7}$	$b = \sqrt{23}$	$b = \sqrt{57}$	$b = \sqrt{39}$

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

$$a^2 + 4^2 = 5^2$$

a	$a = \sqrt{34}$	**b**	$a = \sqrt{66}$
c	$a = \sqrt{9}$	**d**	$a = \sqrt{59}$

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

$$a^2 + 2^2 = 9^2$$

a	$a = \sqrt{239}$	**b**	$a = \sqrt{77}$
c	$a = \sqrt{158}$		