Math worksheet on *'Radicals - Addition Under Squared Radical Plus Integer to Radical (Level 2)'*. Part of a broader unit on *'Radicals - Simplifying Intro'*

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1 Simplify the radical.

$$3 + \sqrt{56 - 11}$$

a	b	c	d	e
$3 + 2\sqrt{7}$	$3 + 5\sqrt{3}$	$3 + 4$	$3 + \sqrt{2}$	$3 + 3\sqrt{5}$

2 Simplify the radical.

$$4 + \sqrt{351 - 51}$$

a	$4 + 9\sqrt{2}$	**b**	$4 + 10\sqrt{6}$
c	$4 + 11\sqrt{6}$	**d**	$4 + 10\sqrt{3}$
e	$4 + 10$		

3 Simplify the radical.

$$1 + \sqrt{588 + 512}$$

a	$1 + 7\sqrt{14}$	**b**	$1 + 10\sqrt{11}$
c	$1 + 7\sqrt{13}$	**d**	$1 + 6\sqrt{10}$
e	$1 + 6\sqrt{11}$		

4 Simplify the radical.

$$3 + \sqrt{29 + 69}$$

a	b	c	d	e
$3 + 7$	$3 + 7\sqrt{2}$	$3 + 8$	$3 + 10$	$3 + 9\sqrt{3}$

5 Simplify the radical.

$$2 + \sqrt{82 + 93}$$

a	$2 + 4\sqrt{8}$	**b**	$2 + 5\sqrt{7}$
c	$2 + 2\sqrt{4}$	**d**	$2 + 3\sqrt{10}$
e	$2 + 7\sqrt{9}$		

6 Simplify the radical.

$$2 + \sqrt{29 - 1}$$

a	$2 + 4\sqrt{7}$	**b**	$2 + 2\sqrt{10}$
c	$2 + \sqrt{5}$	**d**	$2 + 2\sqrt{7}$
e	$2 + \sqrt{9}$		

7 Simplify the radical.

$$4 + \sqrt{346 - 3}$$

a	$4 + 3\sqrt{5}$	**b**	$4 + 10\sqrt{3}$
c	$4 + 8\sqrt{4}$	**d**	$4 + 3\sqrt{4}$
e	$4 + 7\sqrt{7}$		

