Math worksheet on *'Radicals - Addition Under Squared Radical Plus Integer to Radical (Level 1)'*.
Part of a broader unit on *'Radicals - Simplifying Intro'*

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1 Simplify the radical.

$$1+\sqrt{189}-13$$

a	$1+7\sqrt{14}$	**b**	$1+7\sqrt{10}$
c	$1+4\sqrt{7}$	**d**	$1+4\sqrt{11}$
e	$1+7\sqrt{8}$	**f**	$1+2\sqrt{12}$

2 Simplify the radical.

$$1+\sqrt{21}+51$$

a	**b**	**c**	**d**	**e**	**f**
$1+5\sqrt{3}$	$1+8$	$1+6\sqrt{5}$	$1+5$	$1+6$	$1+6\sqrt{2}$

3 Simplify the radical.

$$2+\sqrt{105}+20$$

a	**b**	**c**	**d**	**e**	**f**
$2+8\sqrt{7}$	$2+6\sqrt{8}$	$2+7\sqrt{7}$	$2+8\sqrt{5}$	$2+5\sqrt{5}$	$2+2\sqrt{8}$

4 Simplify the radical.

$$3+\sqrt{317}-65$$

a	**b**	**c**	**d**	**e**	**f**
$3+6\sqrt{7}$	$3+6\sqrt{6}$	$3+4\sqrt{4}$	$3+8\sqrt{3}$	$3+7\sqrt{7}$	$3+3\sqrt{9}$

5 Simplify the radical.

$$2+\sqrt{21}-1$$

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

6 Simplify the radical.

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

a	**b**	**c**	**d**	**e**	**f**
$1+6$	$1+\sqrt{2}$	$1+\sqrt{5}$	$1+2\sqrt{3}$	$1+\sqrt{6}$	$1+3\sqrt{3}$

7 Simplify the radical.

$$1+\sqrt{13}-1$$

a	**b**	**c**	**d**	**e**	**f**
$1+3$	$1+2\sqrt{3}$	$1+\sqrt{2}$	$1+2\sqrt{5}$	$1+4\sqrt{2}$	$1+\sqrt{3}$