

Perfect Square List

$1^2 = \underline{\quad}$	$2^2 = \underline{\quad}$	$3^2 = \underline{\quad}$	$4^2 = \underline{\quad}$	$5^2 = \underline{\quad}$	$6^2 = \underline{\quad}$	$7^2 = \underline{\quad}$	$8^2 = \underline{\quad}$	$9^2 = \underline{\quad}$	$10^2 = \underline{\quad}$
$11^2 = \underline{\quad}$	$12^2 = \underline{\quad}$	$13^2 = \underline{\quad}$	$14^2 = \underline{\quad}$	$15^2 = \underline{\quad}$	$16^2 = \underline{\quad}$	$17^2 = \underline{\quad}$	$18^2 = \underline{\quad}$	$19^2 = \underline{\quad}$	$20^2 = \underline{\quad}$

Warm up: Evaluate each radical expression.

1. $\sqrt{400}$	2. $\sqrt{196}$	3. $5\sqrt{81}$	4. $\frac{3}{4}\sqrt{64}$
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Simplify each square root completely.

Method #1 "Perfect and Garbage"	Answers	Method #2 "Factor Tree/Jail house"	Answers
<b>Notes: Work Space</b>	1. _____	<b>Notes: Work Space</b>	1. _____
1. $\sqrt{162}$	2. _____	1. $\sqrt{180}$	2. _____
2. $6\sqrt{32}$		2. $-2\sqrt{147}$	

Simplify each square root completely.

Method #1 "Perfect and Garbage"	Answers	Method #2 "Factor Tree/Jail house"	Answers
1. $\sqrt{125}$	1. _____	1. $\sqrt{80}$	1. _____
	2. _____		2. _____
2. $\sqrt{45}$		2. $\sqrt{200}$	

Method #1 "Perfect and Garbage"	Answers	Method #2 "Factor Tree/Jail house"	Answers
1. $\sqrt{96}$	1. _____ 2. _____ 3. _____	1. $\sqrt{189}$	1. _____ 2. _____ 3. _____
2. $\sqrt{120}$	4. _____	2. $\sqrt{192}$	4. _____
3. $\sqrt{216}$		3. $\sqrt{72}$	
4. $\sqrt{338}$		4. $\sqrt{320}$	

Method #1 "Perfect and Garbage"	Answers	Method #2 "Factor Tree/Jail house"	Answers
1. $7\sqrt{8}$	1. _____ 2. _____	1. $\frac{1}{3}\sqrt{27}$	1. _____ 2. _____
2. $-4\sqrt{125}$		2. $4\sqrt{153}$	