

MasterMath

Name _____

Simplifying Square Roots

Date _____

1. Simplify each expression

expression	simplified
$2\sqrt{5} + 6\sqrt{5}$	$8\sqrt{5}$
$3\sqrt{3} - 2\sqrt{3}$	$\sqrt{3}$
$3\sqrt{24}$	$6\sqrt{6}$
$\sqrt{(18/2)}$	3
$\sqrt{225}$	15
$13\sqrt{a} - 6\sqrt{a}$	$7\sqrt{a}$
$3\sqrt{144}$	36
$2\sqrt{9} - \sqrt{9}$	3
$3\sqrt{16} - 2\sqrt{9}$	6
$3\sqrt{5} - \sqrt{45}$	0

2. Simplify: $\sqrt{24} - 2\sqrt{6}$

0.0

3. Find the volume of this prism:

$V = bwh$
$b = \sqrt{12''}$
$w = \sqrt{6''}$
$h = \sqrt{8''}$



24 cu in

4. Simplify: $4\sqrt{27} + 2\sqrt{3}$

$14\sqrt{3}$

5. Simplify: $\sqrt{576}$

24

6. Simplify: $\sqrt{400}$

20

7. Simplify: $\sqrt{256}$

16

8. Simplify: $\sqrt{(1/4)}$

$1/2$