

11.2 Worksheet

Date _____ Period _____

Simplify each expression using a tree.

1) $\sqrt{12}$

2) $\sqrt{45}$

3) $\sqrt{48b^2}$

4) $\sqrt{32b}$

5) $3\sqrt{216u^5v^2}$

6) $-6\sqrt{16xy^2}$

7) Explain to a friend how to simplify. Write out each step and explain what you are doing.

$$\frac{4}{\sqrt{3}}$$

REVIEW. Solve each equation. Show all work

8) $\frac{7+a}{21} = 1$

9) $-5 + \frac{n}{20} = -4$

Solve each equation.

10) $-7k + 4 + 6k = k - 8 - 5k - 9$

11) $-10 - 2r = r + 2$

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Date _____ Period _____

Simplify each expression using a tree.

1) $\sqrt{12}$

$2\sqrt{3}$

2) $\sqrt{45}$

$3\sqrt{5}$

3) $\sqrt{48b^2}$

$4b\sqrt{3}$

4) $\sqrt{32b}$

$4\sqrt{2b}$

5) $3\sqrt{216u^5v^2}$

$18u^2v\sqrt{6u}$

6) $-6\sqrt{16xy^2}$

$-24y\sqrt{x}$

7) Explain to a friend how to simplify. Write out each step and explain what you are doing.

$\frac{4}{\sqrt{3}}$

REVIEW. Solve each equation. Show all work

8) $\frac{7+a}{21} = 1$

$\{-14\}$

9) $-5 + \frac{n}{20} = -4$

$\{20\}$

Solve each equation.

10) $-7k + 4 + 6k = k - 8 - 5k - 9$

$\{-7\}$

11) $-10 - 2r = r + 2$

$\{-4\}$