

Practice Worksheet for Lesson 8-1 (part I)

Name:

Mailbox #:

Simplify the following roots. Show your work!

1) $\sqrt{12}$

2) $\sqrt{72}$

3) $\sqrt{45}$

4) $\sqrt{75}$

5) $\sqrt{800}$

6) $\sqrt{54}$

7) $9\sqrt{40}$

8) $4\sqrt{28}$

9) $\sqrt{30} * \sqrt{6}$

10) $\sqrt{5} * \sqrt{35}$

11) $\sqrt{\frac{3}{7}}$

12) $\sqrt{\frac{9}{5}}$

13) $\frac{18}{\sqrt{3}}$

14) $\frac{24}{3\sqrt{2}}$

Find the geometric mean of the following pairs of numbers. Write answers in simplified root form where appropriate (not decimals). Show your work!

15) 6 and 24

16) 3 and 12

17) 3 and 64

18) 5 and 20

19) 64 and 49

20) 1 and 3

21) 100 and 6

22) 20 and 24