

Name _____

Date _____

Problems Involving Both Logarithms and Exponents - Matching Worksheet

Write the letter of the answer that matches the problem.

- _____ 1. A value of a currency grows 1.5% every year.
How long will it take for the value to double? a. 2.1020
- _____ 2. Find the half yearly payments on a \$99,500,
3-year mortgage, with monthly payments at 14.5% interest. How much will you pay
monthly over the 3 years? b. 64.33
- _____ 3. During the last century an earthquake in
Japan registered 9.1 on the Richter scale. In the same year, another earthquake was recorded in
North America that was 5 times stronger. What was the magnitude of the earthquake in North
America? c. 20,549.34
- _____ 4. A city grows 10% every 3 years. How long
will it take for the city to grow to four times its size? d. 46 years & 4
months
- _____ 5. Find the monthly payments on a \$7,000, 14-
year mortgage, with monthly payments at 6.7% interest. How much will you pay monthly over
the 14 years? e. \$103,414.93
- _____ 6. An Arab country experienced a slight
earthquake that measured 1.5 on the Richter scale. In the same year, in Taiwan recorded an
earthquake that was four times greater. What was the magnitude of the quake in Taiwan? f. 9.7989
- _____ 7. Find the monthly payments on a \$9,800,000
35-year mortgage, with monthly payments at 12.5% interest. How much will you pay
monthly over the 35 years? h. 43 years & 5
months

