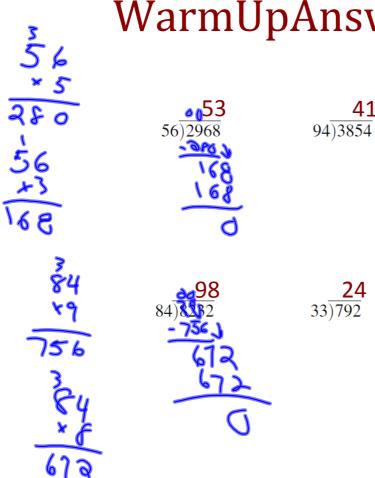
WarmUp

_		
56)2968	94)3854





HomeworkAnswers

1.1 Record and Practice Journal

```
Find the value of the expression. Use estimation to check your answer.
                      2. 2587
 1. 5947 + 2001
                                             3. 5684 + 3118
                          + 1654
    7948
                         4241
                                                8802
 4. 1596 - 302
                                              6. 7094
                      5. 9564 - 7581
                                                  - 989
    1294
                         1983
                                                6105
 7. 851 ÷ 37
                                               9. 8970 ÷ 345
                                                26
    23
                       11. 8549 ÷ 198
                                              12. 74,386 ÷ 874
    104 R16 or 43 R35 or
                                               85 R96 or
13. Your family is traveling 345 miles to an amusement park. You have already traveled 131 miles. How many more miles must you travel to the amusement park?
    214 miles
```

 ${\color{blue} \textbf{Learning Objective:}} \ \textbf{Students will be able to use formal language to describe a power and look at the specific case of perfect squares.}$

Lesson 1.2

September 9, 2014



Self-EvaluationScale

Score	Description
4	I can teach other students how to use formal language to describe a power and look at the specific case of perfect squares.
3	I can use formal language to describe a power and look at the specific case of perfect squares.
2	I recognize, but sll need help to use formal language to describe a power and look at the specific case of perfect squares.
1	I do not know how to use formal language to describe a power and look at the specific case of perfect squares.

Activity1,2,&3

With a partner, work on Acvity 1, 2, & 3 on pages 10 & 11 of your Big Ideas text book.

Self-EvaluationScale

Score	Description
4	I can teach other students how to use formal language to describe a power and look at the specific case of perfect squares.
3	I can use formal language to describe a power and look at the specific case of perfect squares.
2	I recognize, but sll need help to use formal language to describe a power and look at the specific case of perfect squares.
1	I do not know how to use formal language to describe a power and look at the specific case of perfect squares.

Homework

Date:_____

 $74\overline{)5476} \qquad \qquad 66\overline{)6270}$

78)6708

98)8624

96)2112

43)4085

34)1870

42)420

HomeworkAnswers

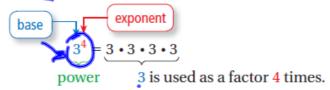
$$\frac{74}{74)5476}$$

$$\frac{86}{78)6708}$$

$$\frac{88}{98)8624}$$

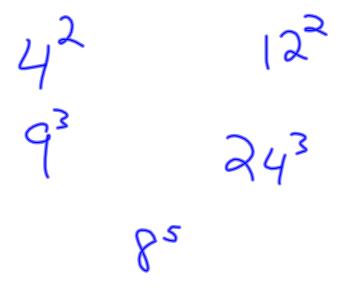
$$\frac{10}{42)420}$$

A **power** is a product of repeated factors. The **base** of a power is the repeated factor. The **exponent** of a power indicates the number of times the base is used as a factor.



Power	Words
3^2	Three squared, or three to the second
3 ³	Three <i>cubed</i> , or three to the third
3 ⁴	Three to the fourth





242,321° 242,321° 242,321

1 Writing Expressions as Powers

Write each product as a power.

a. 4 • 4 • 4 • 4

Because 4 is used as a factor 5 times, its exponent is 5.

So,
$$4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 = 4^5$$
.

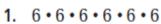
b. $12 \times 12 \times 12$

Because 12 is used as a factor 3 times, its exponent is 3.

So, $12 \times 12 \times 12 = 12^3$.

OnYourOwn

Write the product as a power.





2.
$$15 \times 15 \times 15 \times 15$$



2 Finding Values of Powers

Find the value of each power.

a.
$$7^2$$
 b. 5^3
$$7^2 = 7 \cdot 7$$
 Write as repeated multiplication.
$$5^3 = 5 \cdot 5 \cdot 5$$
$$= 49$$
 Simplify.
$$= 125$$

The square of a whole number is a perfect square.

1, 4, 9, 16, 25, 36, 49, 64, 81, 100

3 Identifying Perfect Squares

Determine whether each number is a perfect square.

- a. 64
 - Because $8^2 = 64$, 64 is a perfect square.
- **b.** 20

No whole number squared equals 20. So, 20 is not a perfect square.

OnYourOwn

Find the value of the power.

3.
$$6^3$$

Determine whether the number is a perfect square.

- **7**. 25
- **8.** 2
- **9**. 99
- **10**. 100

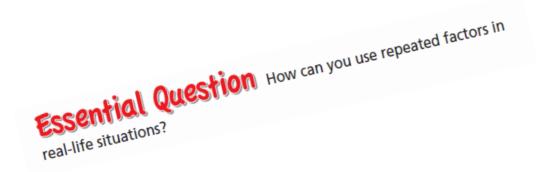
Assignment

Complete problems 4, 5, 14, 15, 25, 26, 36, 37, & 38 on pages 14 & 15 in your Big Ideas Text Book.

 ${\color{blue} \textbf{Learning Objective:}} \ \textbf{Students will be able to use formal language to describe a power and look at the specific case of perfect squares.}$

Lesson 1.2

September 5, 2014



Lesson 1.2 September 5, 2014

LessonObjective:

Students will be able to:

use formal language to describe a power and look at the specific case of perfect squares.

Self-EvaluationScale

Score	Description
4	I can teach other students how to use formal language to describe a power and look at the specific case of perfect squares.
3	I can use formal language to describe a power and look at the specific case of perfect squares.
2	I recognize, but sll need help to use formal language to describe a power and look at the specific case of perfect squares.
1	I do not know how to use formal language to describe a power and look at the specific case of perfect squares.



Homework

Worksheet 1.2 Pracce

September 10, 2014 Period 3 Lesson 1.2