Practice B

Write the product as a power.

1.
$$12 \times 12$$

3.
$$5 \times 5 \times 5 \times 5$$

4.
$$25 \times 25 \times 25$$

5.
$$30 \times 30 \times 30 \times 30 \times 30$$
 6. $17 \circ 17 \circ 17$

Find the value of the power.

Use a calculator to find the value of the power.

14. The price of a car is 3×10^4 . What is the price of the car?

Determine whether the number is a perfect square.

Write the product as a power.

18.
$$d \circ d \circ d \circ d$$

20.
$$p \circ p \circ p \circ p \circ p \circ p$$

- **21.** The number 75 falls between what two perfect squares?
- 22. A homeowner would like to modify the existing patio to create a square patio, either by adding new tiles or moving existing tiles. Each tile is one foot square. The current patio is shown.



- a. What is the area of the existing patio in square feet?
- b. How could the homeowner rearrange the tiles to create a square patio without adding new tiles?
- c. How many tiles must the homeowner purchase to create a patio that is 49 square feet? Can this be done without moving any of the existing tiles?
- d. To create a patio that is 25 square feet, the homeowner must move some tiles and remove others. How many tiles must be moved and how many must be removed?



Puzzle Time

Did You Hear About The...

Α	В	С	D	E	F
G	Н	ı	J	К	L
М	N	0	Р	Q	

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

320 FOR
4436 TEST
1201
181,632 BECAUSE
BECAUSE
40
то
4091
SPIDER
15,275
CAR
52
FAST
4460
то
44 <mark>17</mark> 164
IT
6
WANTED
18,622
WEB

Find the value of the expression.

B.
$$6462 + 2841$$

$$\mathbf{C}. 2857 + 2788$$

G.
$$73 \times 26$$

$$H. 235 \times 65$$

1.
$$528 \times 344$$

J.
$$24)864$$

K.
$$432 \div 72$$

M.
$$\frac{5409}{50}$$

N.
$$\frac{7233}{164}$$

- **O.** Piano lessons cost \$20 per week. How much will it cost, in dollars, for 16 weeks of piano lessons?
- **P.** The scores of the first two football games were 28 and 35. What was the total number of points scored in the first two football games?
- **Q.** The school store has 14 boxes of notebooks with the school mascot on them. If there are 980 notebooks, how many notebooks are in each box?

5645
ASKED
108 <mark>-9</mark> 50
TAKE
63
Α
1455
DRIVE
60
SIGN
1898
Α
70
SPIN
36
HE
7 BUMPER
9303 THAT
11 LIMIT

Date



Puzzle Time

Did You Hear About...

A	В	С	D	Е	F
G	Н	ı	J	K	L
M	N	0	Р	Q	

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

15 HITS
5 ³ CREATED
46 CATCHER
27 HE
No LOT
7 ³ SITE
64 WANTED
11 ⁵ WEB
36 GET
3 ⁵ PLAYER
71 SURF

Write the product as a power.

A. 8×8

- **B.** 12×12
- **C.** $3 \times 3 \times 3 \times 3 \times 3$
- **D.** $9 \cdot 9 \cdot 9 \cdot 9$
- **E.** 5 5 5
- F. 4 4 4 4 4
- **G.** 11 11 11 11 11
- **H.** $7 \times 7 \times 7$

Find the value of the power.

I. 2^4

J. 3^3

K. 4^3

L. 10⁴

M. 6^2

N. 5^2

Determine whether the number is a perfect square.

O. 12

- **P.** 144
- **Q.** You are arranging chairs in the auditorium for the talent show. The number of rows is to be the same as the number of chairs per row. You will need a total of 225 chairs. How many chairs will be in each row?

[-
25	
Α	
12 ²	
BASEBALL	
10,000	
то	
- 2	_
8 ²	
THE	
56	
INNING	
94	
WHO	
	_
72 HOMERUN	
HOWERUN	
4 ⁶	
Α	
Yes	
OF	
16	
BECAUSE	
17	
STRIKE	

1.1 Puzzle Time

SPIDER THAT ASKED TO TEST DRIVE A CAR BECAUSE HE WANTED TO TAKE IT FOR A SPIN

1.2 Practice B

- 1. 12²
- **2.** 4^3
- **3.** 5⁴
- 4. 25^3

- **5.** 30⁵
- **6.** 17^3
- **7.** 169
- **8.** 32

- 9. 512
- **10.** 15,625 **11.** 28,561
 - **12.** 6561
- **13.** $7^5 = 7 \times 7 \times 7 \times 7 \times 7 = 16,807$
- **14.** \$30,000
- **15.** yes
- **16.** yes

- **17.** no
- 18. d^4
- 19. $5z^3$

- **20.** p^6
- 21. 64 and 81
- 22. a. 36 ft²
 - **b.** Divide a row of 4 tiles among the other 2 rows of 4 tiles, creating 6 rows of 6 tiles.
 - c. 13 tiles; yes d. Move 1 tile; remove 11 tiles.

1.2 Puzzle Time

THE BASEBALL PLAYER WHO CREATED A WEB SITE BECAUSE HE WANTED TO GET A LOT OF HITS

1.3 Practice A

- 1. 4
- 2. 4
- **3.** 3

- 4. 3
- **5.** 32
- **6.** 39

- **7.** 10
- **8.** 7
- 9. 1
- **10.** $56 \div 4 \times 2 = 14 \times 2 = 28$
- **11.** 12 problems
- **12.** 3

- **13.** 44
- **14.** 16
- **15.** 21

- **16**. 3
- **17.** 52
- 18. 145 cents
- **19**. *Sample answer*: $14 \div 7 + 5 2 \times 3$
- **20.** \$37; $3 \times 9 + 2 \times 4 + 4 \times 3 10$
- **21.** \$25.50; $17 \times 6 \div 4$