

Mathematics
STANDARD 4
NUMBER: NUMBER
CONCEPTS, PLACE
VALUE AND EXPANDED
NOTATION

TEACHING POINTS

Value of digits up to 1 million

Square numbers up to 144

Expanded notation

EXERCISE 1

State the value of the underlined digit in each of the numbers.

1. 10 256

2. 810 342

3. 705 210

4. 361 245

5. 219 468

6. 521 372

7. 940 254

8. 457 203


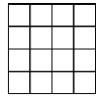
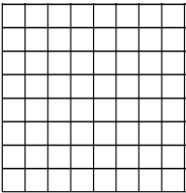
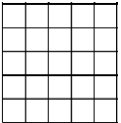
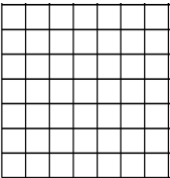

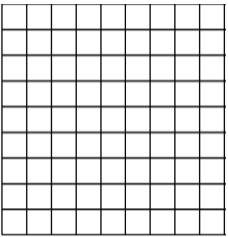
EXERCISE 2

Use the number 297 413, to answer the following questions.

1. Which digit has the greatest value?
2. Which digit has the smallest value?
3. Which digit is in the tens of thousand place?
4. Which digit is in the hundreds place?
5. Which digit is in the tens place?
6. What is the value of the digit in the tens of thousand place?
7. What is the value of the digit in the thousands place?
8. What is the value of the digit in the hundreds of thousand place?

EXERCISE 3

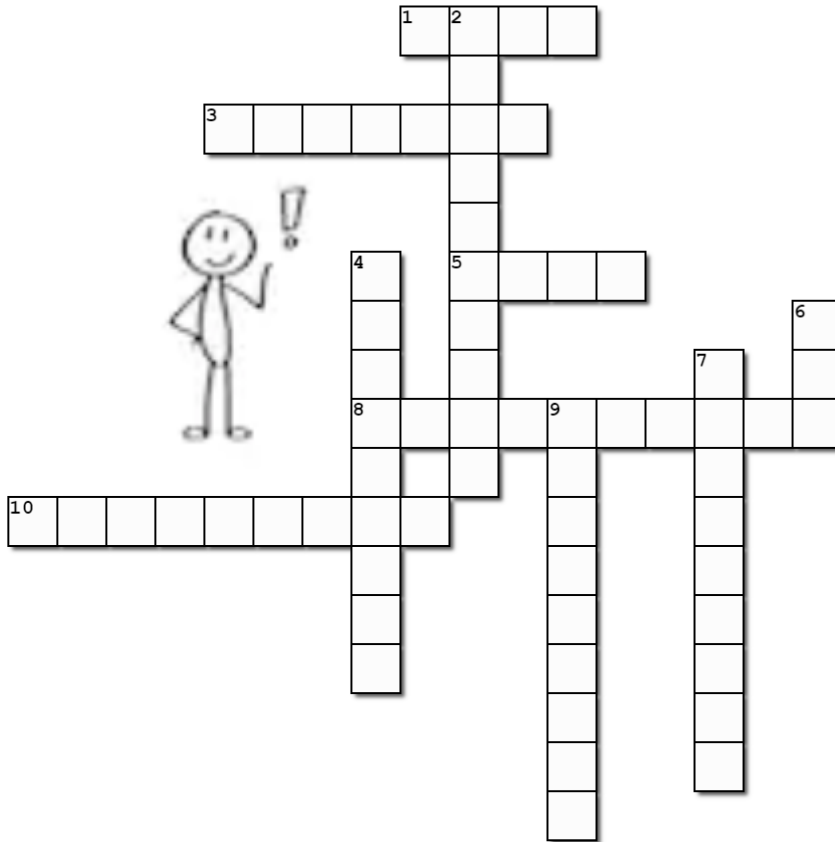
Square the following numbers.

	Number to be Squared	Representation	Square
1.	2		_____
2.	4		_____
3.	8		_____
4.	5		_____
5.	7		_____
6.	3		_____
7.	9		_____

EXERCISE 4

SQUARE NUMBERS

Complete the crossword puzzle below



Across

- 1. two squared
- 3. four squared
- 5. three squared
- 8. five squared
- 10. nine squared

Down

- 2. ten squared
- 4. seven squared
- 6. one squared
- 7. eight squared
- 9. six squared

EXERCISE 5

WORD SEARCH SQUARE NUMBERS

T T O K S K D W Q Y E L
W H R B N C E Q U N R R
E I V U C O R E I C U B
N R K L O A D N H Z O N
T T D A O F N U G F F E
Y Y M S U D U Q T F Y E
F S M Z B Q H I E G T T
I I W P S U E X O U X X
V X Y R V R N Q X K I I
E I U L E F O U P L S S
F O R T Y N I N E K J X
E I G H T Y O N E Z V K

FORTYNINE
ONEHUNDRED
THIRTYSIX

EIGHTYONE
NINE
SIXTYFOUR

FOUR
SIXTEEN
TWENTYFIVE

EXERCISE 6

Write the numbers represented below.

1. $(3 \times 100\,000) + (9 \times 10\,000) + (4 \times 1\,000) + (2 \times 100) + (7 \times 10) + 6$ _____
2. $(1 \times 100\,000) + (7 \times 10\,000) + (2 \times 1\,000) + (8 \times 100) + (7 \times 10) + 1$ _____
3. $(5 \times 100\,000) + (2 \times 10\,000) + (1 \times 1\,000) + (3 \times 100) + (2 \times 10) + 5$ _____
4. $(6 \times 100\,000) + (7 \times 1\,000) + (1 \times 100) + (2 \times 10) + 3$ _____
5. $(5 \times 100\,000) + (2 \times 10\,000) + (6 \times 100) + (4 \times 10) + 9$ _____
6. $(4 \times 10\,000) + (2 \times 1\,000) + (6 \times 100) + (9 \times 10) + 2$ _____
7. $(9 \times 100\,000) + (5 \times 10\,000) + (7 \times 1\,000) + (7 \times 10) + 6$ _____
8. $(2 \times 100\,000) + (6 \times 10\,000) + (3 \times 1\,000) + (5 \times 100) + 8$ _____

EXERCISE 7

Write the following numbers in expanded form.

1. 689 149
2. 327 451
3. 507 483
4. 800 397
5. 716 024
6. 485 302

ANSWERS

EXERCISE 1 ANSWERS


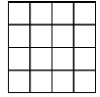
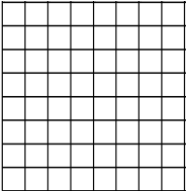
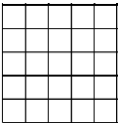
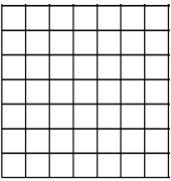

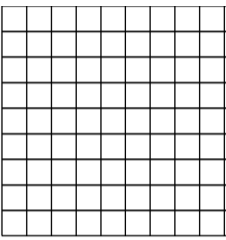
State the value of the underlined digit in each of the numbers.

1. 10 256 200
2. 810 342 10 000
3. 705 210 700 000
4. 361 245 40
5. 219 468 9 000
6. 521 372 70
7. 940 254 40 000
8. 457 203 7 000

EXERCISE 2 ANSWERS

1. 2
2. 3
3. 9
4. 4
5. 1
6. 90 000
7. 7 000
8. 200 000

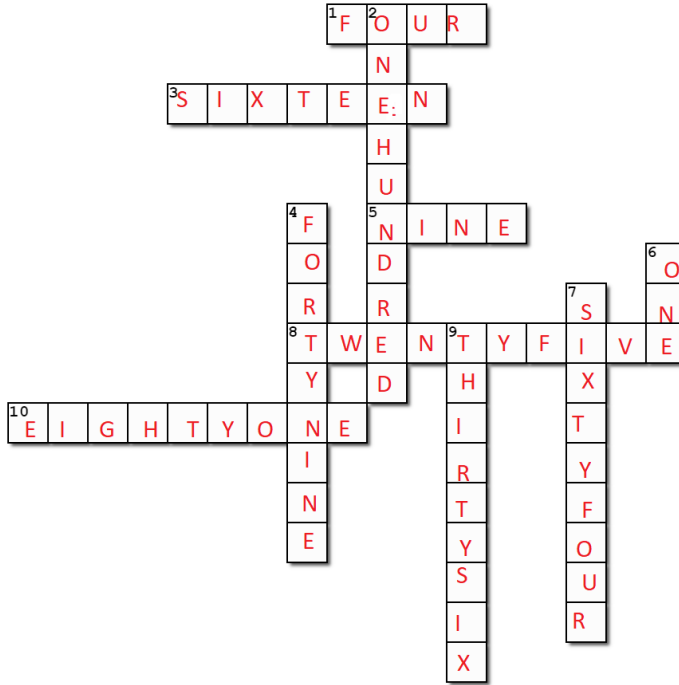
EXERCISE 3 ANSWERS

	Number to be Squared	Representation	Square
1.	2		<u> 4 </u>
2.	4		<u> 16 </u>
3.	8		<u> 64 </u>
4.	5		<u> 25 </u>
5.	7		<u> 49 </u>
6.	3		<u> 9 </u>
7.	9		<u> 81 </u>

Exercise 4 ANSWERS

SQUARE NUMBERS

Complete the crossword puzzle below



Across

- 1. two squared
- 3. four squared
- 5. three squared
- 8. five squared
- 10. nine squared

Down

- 2. ten squared
- 4. seven squared
- 6. one squared
- 7. eight squared
- 9. six squared

EXERCISE 5 ANSWERS

SQUARE NUMBERS

T	T	O	K	S	K	D	W	Q	Y	E	L
W	H	R	B	N	C	E	Q	U	N	R	R
E	I	V	U	C	O	R	E	I	C	U	B
N	R	K	L	O	A	D	N	H	Z	O	N
T	T	D	A	O	F	N	U	G	F	F	E
Y	Y	M	S	U	D	U	Q	T	F	Y	E
F	S	M	Z	B	Q	H	I	E	G	T	T
I	I	W	P	S	U	E	X	O	U	X	X
V	X	Y	R	V	R	N	Q	X	K	I	I
E	I	U	L	E	F	O	U	P	L	S	S

F O R T Y N I N E K J X

E I G H T Y O N E Z V K

FORTYNINE
ONEHUNDRED
THIRTSIX

EIGHTYONE
NINE
SIXTYFOUR

FOUR
SIXTEEN
TWENTYFIVE

EXERCISE 6 ANSWERS

1. 394 276
2. 172 871
3. 521 325
4. 607 123
5. 520 649
6. 42 692
7. 957 076
8. 263 508

EXERCISE 7 ANSWERS

1. $(6 \times 100\,000) + (8 \times 10\,000) + (9 \times 1\,000) + (1 \times 100) + (4 \times 10) + 9$
2. $(3 \times 100\,000) + (2 \times 10\,000) + (7 \times 1\,000) + (4 \times 100) + (5 \times 10) + 1$
3. $(5 \times 100\,000) + (7 \times 1\,000) + (4 \times 100) + (8 \times 10) + 3$
4. $(8 \times 100\,000) + (3 \times 100) + (9 \times 10) + 7$
5. $(7 \times 100\,000) + (1 \times 10\,000) + (6 \times 1\,000) + (2 \times 10) + 4$
6. $(4 \times 100\,000) + (8 \times 10\,000) + (5 \times 1\,000) + (3 \times 100) + 2$