

Mathematics

STANDARD 4

NUMBER: NUMBER CONCEPTS

TEACHING POINTS

- Representing numbers concretely, pictorially and symbolically.
- Place Value.
- Factors and Multiples.
- Prime and Composite Numbers.

EXERCISE 1

Write the number that is represented in each case.

	NUMBER						NUMERAL
	Hundreds of Thousand	Tens of thousand	Thousand	Hundreds	Tens	Ones	
1.	6	7	2	0	1	5	_____
2.	4	3	0	0	7	9	_____
3.	2	1	6	4	3	8	_____
4.	3	7	8	5	0	2	_____
5.	1	4	8	2	1	0	_____

EXERCISE 2

What is the place value of the underlined digit in each of the numbers below?

1. 254 107 _____

2. 726 395 _____

3. 841 396 _____

4. 910 422 _____

5. 396 120 _____

6. 521 961 _____

7. 156 487 _____

8. 674 283 _____

EXERCISE 3

What is the value of
the underlined digit
in each of these
numbers?

1. 271 455 _____

2. 503 278 _____

3. 163 507 _____

4. 851 039 _____

5. 623 780 _____

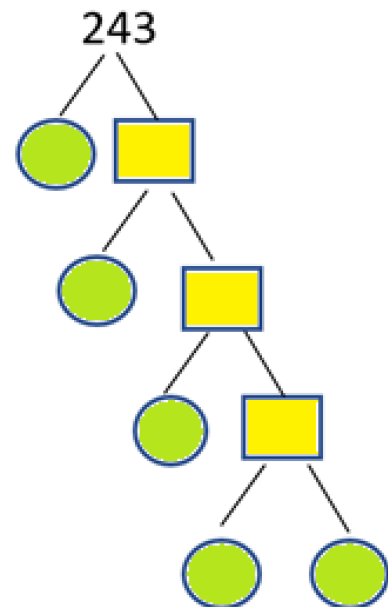
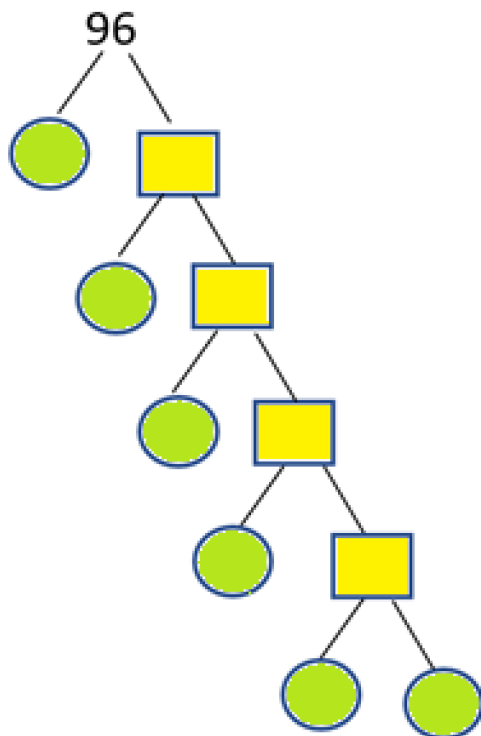
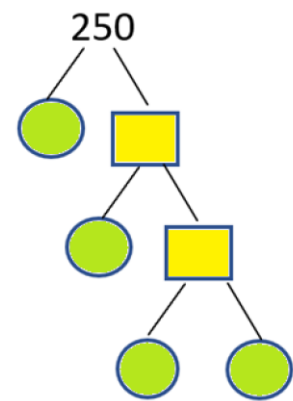
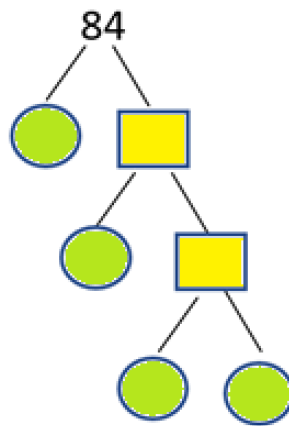
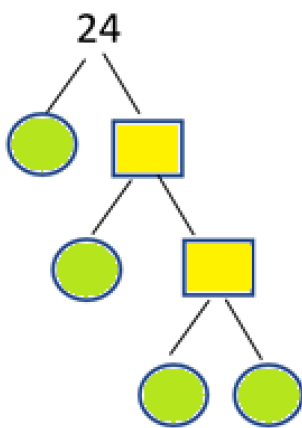
6. 901 547 _____

EXERCISE 4

Fill the missing numbers in the diagrams to find the factors of the given number.

The circle means that the number cannot be divided further.

The rectangles mean that these numbers can be divided further.



EXERCISE 5

Find the first 5 multiples of each of the following numbers

1) 2 _____

2) 3 _____

3) 5 _____

4) 8 _____

5) 10 _____

Write in the missing multiple(s)

4, 8, 12, _____, 20, 24

6, _____, 18, 24, 30, 36

7, 14, 21, _____, 35, _____, 49

_____, 18, 27, _____, 45, 54

Write all the multiples of 12 greater than 40
but less than 110.

EXERCISE 6

Which factor of 10 is not a multiple of 2? _____



Which factors of 36 are odd? _____



Which factors of 24 are multiples of 6?



What are two odd factors of 63?
(Except 1) _____



Which
factors of
80 are
square
numbers?



What is the largest factor of 90?



EXERCISE 7

1. Write all the prime numbers between 1 and 15.
2. What are the composite numbers between 20 and 30?
3. What is the largest 2-digit prime number?
4. Circle the prime numbers from this list of numbers.

21, 31, 49, 59, 63, 73, 91, 97, 40, 56, 37

5. State whether the following statements are true

STATEMENT	TRUE OR FALSE
1 is a composite number.	
All the odd numbers are the prime numbers.	
2 is a prime number	
A composite number has at least 3 factors.	
A prime number is always even.	
1 is neither prime nor composite	
A composite number is always even.	
A number is either composite or prime.	
A prime number has only two factors.	
1 is a prime number.	
All even numbers are composite numbers	

EXERCISE 8 SEA QUESTIONS

1. Write the **value** of the underlined digit in the place value chart.

Hundreds of Thousand	Tens of Thousand	Thousand	Hundred	Tens	Ones
6	<u>3</u>	8	1	9	7

2019
1 mark

2. What is the largest **prime** number in the box below?

41	75	49
87	67	23

2019
1 mark

3. State the value of the underlined digit in the number below.

23 416

Answer _____

2018
1 mark

4. Write the numeral that represents
nine hundred and five thousand,
four hundred and twelve.

2018

1 mark

Answer

5. Write the numeral that represents
six hundred and twelve thousand,
nine hundred and three.

2018

1 mark

Answer _____

6. Approximate 26 387 to the nearest
HUNDRED.

Answer _____

7. Write in words 109 215. 2017
1 mark

Answer _____

8. State the **place value** of the underlined digit. 2016
1 mark
- 87 564

9. Approximate 2 875 to the NEAREST thousand. 2016
1 mark

Answer _____

EXERCISE 1 ANSWERS

	NUMBER						NUMERAL
	Hundreds of Thousand	Tens of thousand	Thousand	Hundreds	Tens	Ones	
1.	6	7	2	0	1	5	672 015
2.	4	3	0	0	7	9	430 079
3.	2	1	6	4	3	8	216 438
4.	3	7	8	5	0	2	378 502
5.	1	4	8	2	1	0	148 210

EXERCISE 2 ANSWERS

1. 254 107 _____ Hundreds

2. 726 395 _____ Ones

3. 841 396 _____ Hundreds of thousand

4. 910 422 _____ Tens

5. 396 120 _____ Hundreds of thousand

6. 521 961 _____ Tens of thousand

7. 156 487 _____ Thousands

8. 674 283 _____ Ones

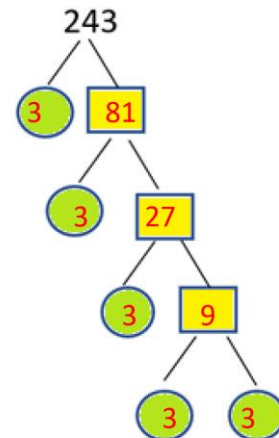
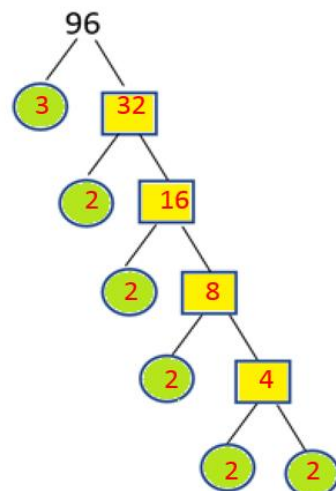
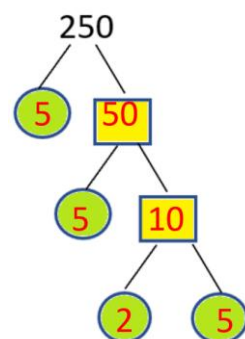
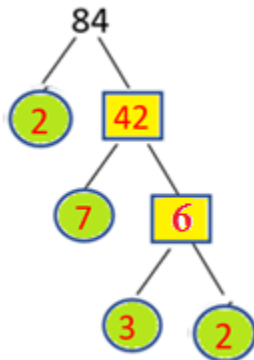
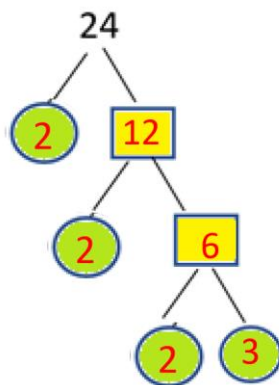
EXERCISE 3 ANSWERS

EXERCISE 3

What is the value of the underlined digit
In each of these numbers?

1. 271 455 400
2. 503 278 500 000
3. 163 507 3 000
4. 851 039 1 000
5. 623 780 80
6. 901 547 7

EXERCISE 4 ANSWERS



EXERCISE 5 ANSWERS

Find the first 5 multiples of each of the following numbers

1. 2 4 6 8 10 12
2. 3 6 9 12 15 18
3. 5 10 15 20 25 30
4. 8 16 24 32 40 48
5. 10 20 30 40 50 60

Write in the missing multiple(s)

4, 8, 12, 16, 20, 24

6, 12, 18, 24, 30, 36

7, 14, 21, 28, 35, 42, 49

9, 18, 27, 36, 45, 54

Write all the multiples of 12 greater than 40 but less than 110.

48 60 72 84 96 108

EXERCISE 6 ANSWERS

Which factor of 10 is not a multiple of 2? **5**



Which factors of 36 are odd? **1, 3, 9**



Which factors of 24 are multiples of 6?

6, 12 or 24



What are two odd factors of 63?
(Except 1) **Any two of the following:
3, 7, 9, 21**



Which factors of 80 are square numbers? **1, 4 or 16**



What is the largest factor of 90?

90



EXERCISE 7

1. 2, 3, 5, 7, 11, 13
2. 21, 22, 24, 25, 26, 27, 28
3. 97
4. 21, 31, 49, 59, 63, 73, 91, 97, 40, 56, 37

5.

STATEMENT	TRUE OR FALSE
1 is a composite number.	False
All the odd numbers are the prime numbers.	False
2 is a prime number	True
A composite number has at least 3 factors.	True
A prime number is always even.	False
1 is neither prime nor composite	True
A composite number is always even.	False
A number is either composite or prime.	False
A prime number has only two factors.	True
1 is a prime number.	False
All even numbers are composite numbers	False

EXERCISE 8 ANSWERS

1. 30 000
2. 67
3. 20 000
4. 905 412
5. 612 903
6. 26 400
7. One hundred and nine thousand two hundred and fifteen
8. Tens of thousands
9. 3 000