VIKRAM

Vikram

Class-4

Magical Math

Question Papers
with Lesson Plan

Formative Assessments : I, II, III & IV

Summative Assessments : I, II & III

Total Pages : 24   Rs. 2/-

Note : These Question Papers are meant for students, using Formative Assessment Exam papers are as complement for schools. The price of Rs. 2/- against Summative Assessment Exam papers also charged nominally towards transportation and handling charges only and to avoid misusage / wastage.

Total : 1 Set   **No. of Student : 1**

LESSON PLAN

CLASS - 4   :   Magical Math

	Months	*Magical Math* Chapters
FA - I	June-July	Chapters : 1 - 3
FA - II	August	Chapters : 4 - 6
SA - I	September	Chapters : 1 - 7
FA - III	Oct-Nov	Chapters : 8 - 10
SA - II	December	Chapters : 1 - 11
FA - IV	Jan-Feb.	Chapters : 12 - 14
	March	Revision
SA - III	April	Chapters : 1 - 15

Syllabus :

Text Book
1 to 3 lessons

FORMATIVE ASSESSMENT-I

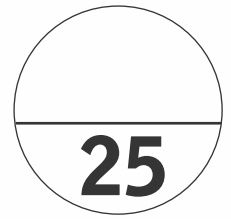**Magical Math : Class - 4**

Time : 1 hour]   [Max. Marks:25]

25

Name :   Class :   Section :   Roll No. :

A. **Write the following numbers in expanded notation.**   **2 x 1 = 2M.**

1) 921097 ....

2) 400065 ....

B. **What is the place value of 5 in the following numbers ?** **3 x 1 = 3M.**

1) 606050 ....

2) 546474 ....

3) 1539 ....

C. **Simplify the following.**   **2 x 2 = 4M.**

1) 93452 – 105643 + 739582 ....

2) 29643 + 10936 – 20954 ....

D. **Write the smallest and the greatest numbers with the following digits. The digits are to be used only once.**   **2 x 1 = 2M.**

1) 1, 9, 3, 6, 5, 6   ....

2) 2, 8, 4, 1, 3, 9   ....

E. **Make a number pattern out of the following.**   **2 x 1 = 2M.**

1)
12	24		30
	18	9	
15	27		21

2)
198	165		132
	121	176	
143	187		154

....

F. Find out which operation (addition, subtraction, multiplication or division) is used to get the next number. Complete the pattern.

3 x 1 = 3M.

1) 2, ..., ..., ..., 34, 42, 50, ..., ...

2) ...., ..., 7, 10, 13, ..., ..., ...

3) 6, ..., ..., 6000, ..., ..., 6000000.

G. Complete the following divisions.

2x 1 = 2M.

1) $2\sqrt{805}$

2) $4\sqrt{362}$

H. Use <, > and = to fill in the blanks.

3 x 1 = 3M.

1) 10091 100091

3) 360006 360060

2) 39875 29817

I. Word Problems.

2 x 2 = 4M.

1) The population of a small town 3,00,579. There are 1,02,319 men and 98,756 women. The rest are children. How many children are there in the town ?

2) A Student was told to write the numeral for nineteen thousand three hundred fifty six. But he wrote ninety thousand five hundred thirty six. Write both in the numerals and find the difference between them.
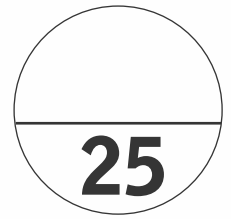
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Syllabus :
Text Book
4 - 6 lessons

FORMATIVE ASSESSMENT-II
Magical Math : Class - 4

Time : 1 Hour]   [Max. Marks:25]

25

Name :   Class :   Section :   Roll No. :

A. i) List all the factors of the following numbers and write down the common factors in each case.   **2 x 1 = 2M.**

80 and 100

Factors of .... = ...

Factors of .... = ...

Common factors are ....

ii) Write the first 10 multiples of the following numbers and list the common multiples.

11 and 7

Multiples of .... = ...

Multiples of .... = ...

Common factors are ....

B. i) Find the H.C.F by finding common factors.   **2 x 2 = 4M.**

55 and 80

Factors of .... = ...

Factors of .... = ...

Common factors = ...

HCF of .... and .... = ...

ii) Find the L.C.M of the following pairs of numbers.

14 and 3

Multiple of .... = ...

Multiple of .... = ...

Common factors = ...

LCM of .... and .... = ...

C. Tick (✓) on the right option.   **2 x 1 = 2 M.**

1) The greatest number of four digits which is divisible by 15, 25, 40 and 75 is :

   A. 9000 ☐   B. 9400 ☐

   C. 9600 ☐   D. 9800 ☐

2) The product of two numbers is 4107. If the H.C.F. of these numbers is 37, then the greatest number is

   A. 101 ☐   B. 107 ☐

   C. 111 ☐   D. 185 ☐

D. Write the factor tree for the following.   **2 x 2 = 4M.**

1) 108   2) 54

E. Write all the factors of the following numbers. Also write the smallest and greatest factor of each number.   **2 x 2 = 4M.**

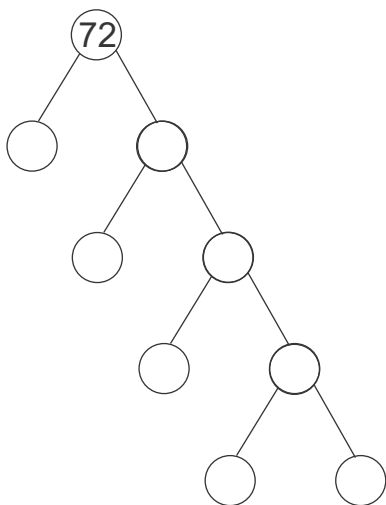| numbers	factors	Greatest factor	smallest factor
30			
96			

F. Fill in the blanks.   **2 x 1 = 2 M.**

1) If the last digit of a number is 0, then it is divisible by ...., ...

   and ....

2) A number is divisible by 9 if ....

G. Find the prime factors of the following using a factor tree.
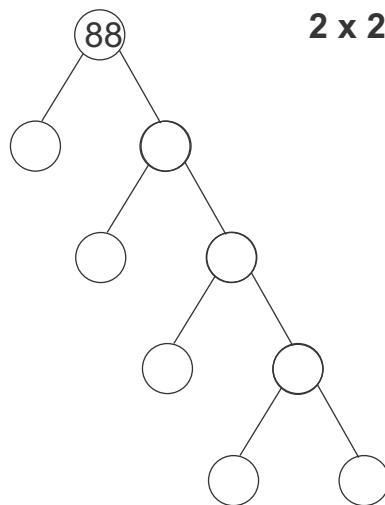
1) 72   2) 88   **2 x 2 = 4M.**

Prime factors of ....   Prime factors of ....

= ....   = ...

H. Write the first five multiples of the following numbers.   3 x 1 = 3 M.

1) 14 ....

2) 13 ....

3) 19 ....

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Syllabus :

Text Book
8 to 10 lessons

FORMATIVE ASSESSMENT-III
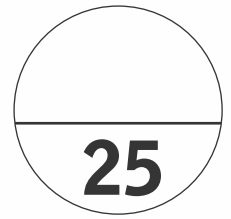
Magical Math : Class - 4

Time : 1 Hour]   [Max. Marks:25]

25

Name :   Class :   Section :   Roll No. :

A. Write the following fractions as decimal numbers.   2 x 2 = 4M.

1) $234 \dfrac{5}{100}$ ....   2) $3265 \dfrac{25}{100}$ ....

B. Write the following decimal number in fraction form.   3 x 1 = 3M.

1) 65.026 ....   2) 0.123 ....   3) 100.006 ....

C. 1) Add.   4 x 2 = 8M.

m	cm
5	72
6	93

(+ before 6 93 row)

2. Subtract.

8*l* 225m*l* from 12*l* 500 m*l*

3. Multiply.

17 kg 236 g by 16

4. Divide

12*l* 612 m*l* by 12.

D. **Write the number names of the following numbers.**   **3 x 1 = 3M.**

1) 1.92 ....

2) 3.12 ....

3) 2.9 ....

E. **i) Determine the profit.**   **2 x 2 = 4M.**

1) Cost price = ₹ 1990.25, selling price = ₹ 2015.00

ii) Determine the loss

1) Cost price = ₹ 473.00, selling price = ₹ 352.75

F. **Convert the units as indicated.**   **6 x ½ = 3M.**

1) 1000 mm   = ... cm

2) 3 k*l*   = ... *l*

3) 5000g   = ... kg

4) 10,000m   = ... km

5) 5 m   = ... cm

6) 7 *l*   = ... c*l*

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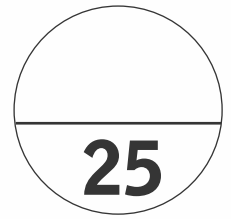
Name :   Class :   Section :   Roll No. :

A. Draw the following circles with the help of a compass.   2 x 3 = 6M.

1) Radius : 8 cm   2)   Radius : 3.5 cm

B. Find the perimeter of the given rectangles of sides.   8 x 1 = 8M.

Lenght	5 cm	9.8 cm	15m	19.7m	38.5m	54dm	60m	9 km
Breadth	2 cm	5.2m	9 m	8.3 m	22.5 cm	18 m	30 m	5 km
Perimeter = 2 x (l +b)								

C. i) Add   **ii) Subtract**   **2 x 2 = 4M.**

₹	P
73	65
19	15

₹	P
400	90
218	35

D. Fill in the blanks.   **4 x ½ = 2M.**

1) The boundary of a circle is called ....

2) ₹ 1000 – .... = Rs. 19.01

3) ₹ 500 + ... = Rs. 615.50

4) .... joins the centre of the circle to a point on the

   circumference.

E. Determine the missing length.   **1 x 3 = 3M.**

1) Perimeter = 34 m

?

9m

10m
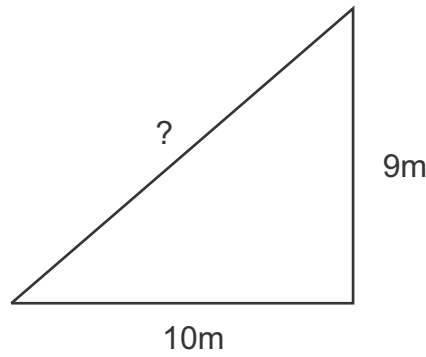
F. Name the centre, radius and the diameter.   **1 x 2 = 2M.**
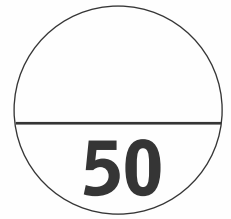
1)

R   S

O

P   Q
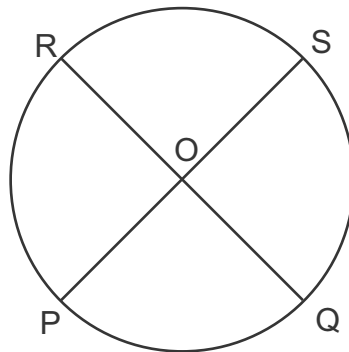
Centre ....

Radius ....

Diameter ....

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SUMMATIVE ASSESSMENT-I

Magical Math : Class - 4

Time : 2 ½ hour]   [Max. Marks:50]

50

Name :   Class :   Section :   Roll No. :

A. **Find out which operation (addition, subtraction, multiplication or division) is used to get the next number. Complete the pattern.**

2 x 1 = 2M.

1. 576, 288, ..., ..., 36, 18 ....

2. ...., ..., ..., 99, 93, 87, ..., ...

B. **Write the following number names in both Hindu Arabic System and International System with commas at the proper places.**

2 x 2 = 4M.

1. 756239

    ....

    ....

2. 397612

    ....

    ....

C. **Write the place value and face value of the underlined digit in each number.**   **2 x 2 = 4M.**

1. 83<u>9</u>20

    Place value = ... x .... = ...

    Face Value = ...

2. 1<u>3</u>019

    Place value = ... x .... = ...

    Face Value = ...

D. Write the successor (comes after) and predecessor (comes before) of the numbers.   **3 x 1 = 3M.**

1.   20999   ....

2.   470021   ....

3.   538769   ....

E. i) Write the following number in ascending order.   **2 x 2 = 4M.**

    1. 286734, 27368, 23678, 327561, 32741, 384529

    ....

ii) Write the following number in decending order.

    1. 38594, 33859, 395489, 39953, 396745, 398201

    ....

F. Complete the series as directed and put commas at the appropriate places.   **2 x 1 = 2M.**

1) Count in ten thousands

    189463, ☐ ☐ ☐ ☐

2) Count in Lakhs

    564728, ☐ ☐ ☐ ☐

G. Study the number patterns and complete them.   **3 x 1 = 3M.**

1.

4	8	12	16				

2.

2	4	8	16	32				

3.

2	20	200			

H. Make a number pattern out of the following.   **3 x 1 = 3M.**

1)
56	98	77
91	63	
70	105	84

....

2)
210	270	220
250	260	
280	240	230

....

3)
200	125	75
50	175	
100	150	25

....

I. Enter the digits of the numbers in the table.   **3 x 1 = 3M.**

Numbers	Lakhs / H Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
991100						
63820						
2436						

J. What is the pattern ?   **2 x 1 = 2M.**

1. 35, 40, 45, 50, 55, 60   Pattern Rule : ....

2. 108, 117, 126, 135, 144, 153   Pattern Rule : ....

K. Write the following in standard form.   **2 x 1 = 2M.**

1) 500000 + 5000 + 500 + 50 + 5 = ...

2) 900000 + 80000 + 7000 + 7 = ...

L. Complete the following divisions.   **2 x 2 = 4M.**

1) $15\sqrt{43}$ 2) $9\sqrt{712}$

M. Compare and write <, >, or = .   **4 x ½ = 2M.**

1) $\dfrac{7}{10}$ ◯ $\dfrac{7}{5}$ 2) $\dfrac{3}{5}$ ◯ $\dfrac{15}{25}$

3) $\dfrac{2}{9}$ ◯ $\dfrac{8}{9}$ 4) $\dfrac{13}{24}$ ◯ $\dfrac{13}{15}$

N. Find the prime factor of the following using a factor tree.
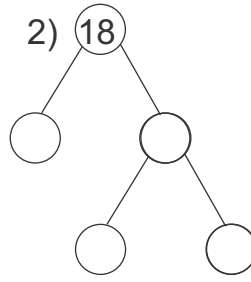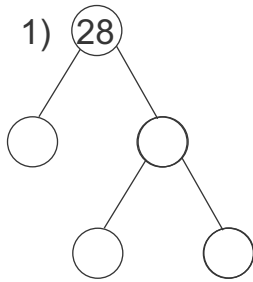
1) 28   2) 18   **2 x 1 = 2M.**

Prime factor of ....   Prime factor of ....

= ....   = ...

O. Word Problems.   **5 x 2 = 10M.**

1) After coming back from school, Rohan spends $\dfrac{1}{4}$ hr on eating, $\dfrac{3}{4}$ hr watching TV and $1\dfrac{1}{4}$ hr doing his homework. What is the total time Rohan spends on all the activities ?

2) The school organized a field trip to a museum. Rs. 196 was collected from each child. How much was collected in all if 5 children took part?

3) The profits from a diary farm in three months are Rs. 208254, Rs. 374512 and Rs. 196382. What is the total profit of the dairy farm at the end of three months.

4) A bucket contains 8 litres of water $\dfrac{10}{3}$ litres of water has been taken out. How much water is left in the bucket ?

5) Complete the following patterns.

3 x 10   = ...   3 x 100 = ...

3 x 1000   = ...   3 x 10000 = ...
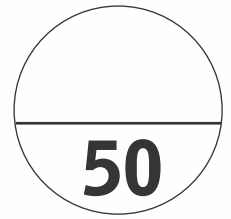
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SUMMATIVE ASSESSMENT-II
Magical Math : Class - 4

Time : 2 ½ hour]　　　　　　　　　　　[Max. Marks:50]

50

Name :　　　　　　　　　　　　　　　Class :　　　Section :　　　Roll No. :

A. 1. Add　　　　　　　**2. Subtract**　　　　**4 x 2 = 8M.**

　　72g 999mg and 33g 5 mg　　　18dm 8cm from 21dm 12 cm

3. Multiply　　　　　　**4. Divide**

　　16km 235m from 20km　　　　15l 33ml by 3

B. Write the following decimal numbers in fraction form.　2 x 1 = 2M.

1) 27.20　　　　　　　　　2) 126.75

C. Write the following fractions as decimal numbers.　　2 x 1 = 2M.

1) $217 \frac{82}{100}$　　　　　　　2) $3265 \frac{25}{100}$

D. i) Determine the profit　　　　　　　　　**2 x 2 = 4M.**

　　　Cost price = ₹ 396.25

　　　Selling price = ₹ 440.00

ii) Determine the loss

　　　Cost price = ₹ 725.05

　　　Selling price = ₹ 699.05

E. Compare the following fractions.　　　　　**2 x ½ = 1M.**

1) $1 \frac{3}{4}$　◯　$2 \frac{1}{4}$　　　　2) $\frac{24}{12}$　◯　$2 \frac{1}{12}$

F. **Write the place value and face value of the underlined digit in each number.**   **2 x 1 = 2M.**

1. 2̲7981

   Place value   = ... x .... = ...

   Face value   = ...

2. 243̲027

   Place value   = ... x .... = ...

   Face value   = ...

G. **1)** **Convert into minutes.**   **8 x 2 = 16M.**

   85 hrs. 43 mins.   ....

   2) **Convert into seconds**

   22 min. 14 sec.   ....

   3) **Convert into hours.**

   22 days 9 hours   ....

   4) **Convert into minutes and hours.**

   326 min.   ....

   5) **Convert into minutes and seconds.**

   4800 sec.   ....

   6) **Convert into days and hours.**

   98 hours   ....

   7) **Convert into months.**

   12 years   ....

   8) **Convert into years.**

   84 months   ....

H. use <, > and = to fill in the blanks. 4 x ½ = 2M.

1) 62034 60234

2) 39875 29817

3) 100009 100009

4) 45632 456320

I. Find the LCM of the following pairs of numbers. 1 x 2 = 2M

11 and 5

Multiple of .... = ...

Multiple of .... = ...

LCM of .... and .... = ...

J. Write the following in standard form. 3 x 1 = 3M.

1) 30000 + 6000 + 400 + 20 + 8 = ...

2) 4000 + 50 + 2 = ...

3) 10000 + 100 + 10 + 1 = ...

K. Write the smallest and the greatest numbers with the following digits. The digits are to be used only once.   **2 x 1 = 2M.**

1) 4, 7, 5, 8, 2

....

2) 1, 9, 3, 6, 5, 6

....

L. Word Problems.   **3 x 2 = 6M.**

1. Kamya needs 8 ribbons of 3/4 m length each. what is the total length of the ribbon she needs to buy ?

2. A potato wafer company produced 3,45,603 packets of wafers in the year 2005. The company then produced 4,00,321 packets of wafers in the year 2006. How many packets of wafer in all did the company produce in the two years ?

3. 24752 saplings have to be sowed in 550 rows. How many saplings are planted in a row ? How many saplings are left over ?
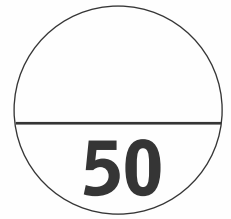
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Syllabus :
Text Book
1 to 15 lessons

SUMMATIVE ASSESSMENT-III
Magical Math : Class - 4

Time : 2 ½ hours]   [Max. Marks:50]

50

Name :   Class :   Section :   Roll No. :

A. **Find out which operation (addition, subtraction, multiplication or division) is used to get the next number. Complete the pattern.**

2 x 1 = 2M.

1. 576, 288, ..., ..., 36, 18, ...

2. 54, ..., ..., 42, ..., 34, 30, ...

B. **Write the following number names in both Hindu Arabic System and International System with commas at the proper places.**

2 x 2 = 4M.

1. 440077 ....

2. 397612 ....

C. **Write the place value and face value of the underlined digit in each number.** **2 x 1 = 2M.**

1. 7̲39246

   Place value = ... x .... = ...

   Face Value = ...

2. 243̲027

   Place value = ... x .... = ...

   Face Value = ...

D. **Write the following decimal numbers in fraction form.** **2 x 1 = 2M.**

1. 382.45 ....   2. 27.230 ....

E. Write the expanded form.   2 x 2 = 4M.

1. 531.7 = ... Thousands + ... Hundreds + ...

.... Tens + ... Ones + ... tenths + ...

hundredths + ... Thousandths.

2. 9.025 = ... Thousands + ... Hundreds + ...

.... Tens + ... Ones + ... tenths + ...

hundredths + ... Thousandths.

F. Write the number names of the following numbers.   4 x 1 = 4M.

1.   3.004 ....

2. 1019.205 ....

3. 817.63 ....

4. 236.107 ....

G. Study the number patterns and complete them.   2 x 1 = 2M.

1.   2187, 729, 243, 81 ....

2.   2, 20, 200, ...

H. What is the pattern.   2 x 1 = 2M.

1. 108, 117, 126, 135, 144, 153   Pattern Rule : ....

2. 1, 4, 16, 64, 256, 1024   Pattern Rule : ....

I. Fill in the blanks.   3 x 2 = 6M.

Cost Price	Selling Price	Profit	Loss
a) ₹ 1358.00	₹ 1329.00		
b) ₹ 246.80		₹ 23.50	
c) ₹ 1567.00			₹ 38.00

J. **The following different items are sold every day in a stationary shop.**   **5 x 1 = 5M.**

Items	Number of items	Fraction of total
Pencils	30	$\frac{30}{150} = \frac{2}{10}$
Erasers	45	$\frac{45}{150} = \frac{3}{10}$
Notebooks	60	$\frac{60}{150} = \frac{4}{10}$
Pens	15	$\frac{15}{150} = \frac{1}{10}$
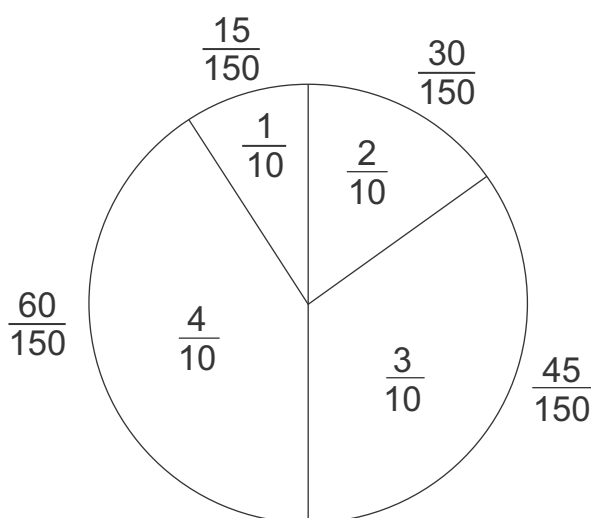
Items sold in a stationary shop in a day.

a) Which product sold the best ? ....

b) Which product sold the worst ? ....

c) What fraction of the sales were pencils ? ....

d) What is the combined amount of pencils and erasers sold ? ....

e) Which two products accounted for more than half the sales ? ....

K. Find the perimeter. 1 x 2 = 2M.

15 cm

7 cm

L. Fill in the blanks. 5 x 1 = 5M.

1. 16 hours 25 min = ... sec.

2. ₹ 1000 – .... = Rs. 19.01

3. A number divisible by 4 is also divisible by ....

4. The smallest prime number is ....

5. 60 mm = ... cm.

M. Word Problems. 5 x 2 = 10M.

1) There were 509682 bags of wheat in the godown of a wholesale merchant off these 253409 bags were sold to the different shops in the city. How many bags are left with the wholesale merchant ?

2) Three persons A, B, C need ₹ 2,00,000 to start a business. A has ₹ 55,000, B has ₹ 69,000 and C has ₹ 39,000. How much more money is required to start the business ?

3) A bucket contains 8 litres of water. $\frac{10}{3}$ litres of water has been taken out. How much water is left in the bucket.

4) Ajay purchased a piano for ₹ 25,725 and after using it for six months, he sold it for ₹ 20,525. Find out the loss.

5) A string 182m 96cm is to be divided into five equal pieces. What will be the length of each piece ? How much it will be left over ?

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