

The Primary Stage of Grades (4-5) School Year 2022- 2023

Name: _____

Subject: Math

Date: /

Grade: 4 CP (C, D, E, F & G)

Decimals





Cambridge Assessment Cambridge International School

Eco-Schools معتمدة من

Dee				<u>cin</u>	<u>nals</u>	You	must)	
	Pla	ice value ch	nart:				memo	orize it!)
	Whole Number Part								
	Thousands Family	Ones		■		Decimal P	Part		
	Thousand	hundreds	Tens	Ones		Tenths	Hundredths	Thousandths	
					-				

a)) 57.324
b)) 16.22
C)) 314.08
d) 200.004
2)) Write the following numbers in figures:
(Use the place value chart to help you find the position of each digit and make it easier to solve.
Т	wo and fifty five hundredths.
Se	even hundred thirty one and seventy five hundredths.
Si	x hundred four and two thousandths.
) Fo	orty one and seven tenths.

Value and place value:

Place value can be defined as the position or the name of the digit.

The value is how much the digit is worth & it depends on the digits **place** in a number

Write the value and place value of the underline digit:

18.3<u>4</u>7

	Whole Numbers							
	Thousands Family	Ones		•		Decimal fa	mily	
	Thousand	hundreds	Tens	Ones		Tenths	Hundredths	Thousandths
			1	8	•	3	4	7
Value:			0	0		0	4	0

Value: 0.04

Place value: Hundredths

3) Write the **value** of the underline digit:

a) 2 . 4 <u>7</u> 8	b) <u>6</u> 6.001
c) 17 . <u>2</u>	d) <u>1</u> 473 . 907
e) 51 . 99 <u>4</u>	f) 84 . <u>0</u> 8

4) Write the **place value** of the underline digit:

a) 34 . <u>8</u> 75	b) 55.65 <u>4</u>
c) 10.9 <u>9</u> 2	d) 1 <u>7</u> 42. 907
e) 88 . 2 <u>0</u> 7	f) 74 . 64 <u>1</u>
g) <u>2</u> 1 436 . 25	h) 22 . <u>1</u> 4
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Expanded Form:

Writing the number as the sum of the **value** of each digit.

Example: Partition the number 25.396?

 $25 \cdot 396 = 20 + 5 + 0.3 + 0.09 + 0.006$

5) Partition the following numbers:

a) 276 . 9

b) 63 . 214

c) 71 . 601

d) 311.04

6) Answer the following:				
- The digit in the hundredths place in 21.293 is				
- The digit in the ones place in 74.013 is				
- The digit in the tenths place in 58.17 is				
- The digit in the thousandths place in 74.013 is				
$- \qquad = 70\ 000 + 400 + 20 + 1 + 0.08$				
- 9 837.124 = 9 000 + + 30 + 7 + + 0.02 +				

7) Complete the table:

Words	Standard (figures)	Partition
Six hundred five point one		
nine seven		
	64.817	
		100 + 40 +3 + 0.8 +0.05
Twenty-three and eight thousandths		

) Complete the table:

Fraction in simplest form	Fraction	Decimal	Percentage
	26 100		
			44 %
2 25			
		0.38	
			6 %
7 50			
	40 100		
	9		

Compare & Order:

• Compare and order between the following numbers:

4.8 / 4.826 / 4.08 / 4.006

Labeling on number line:

To represent a decimal on a number line, divide each segment of the number line into ten equal parts.

example: label 8.4 on a number line.

To represent 8.4 on number line,

Add decimal point and a zero to both numbers because 8.4 is between 8 and 9

Jump 4 jumps, so you will reach 8.4

The arrow is four parts to the right of 8.

Example One:

Or you can add a decimal drop a zero your number will be between 8.0 & 9.0 Or (80 & 90. Then put back the decimal.

Rounding:

• How to round decimal numbers?

Example: Round 34.818 to one decimal place?

$$34.\underline{8}18 = 34.800 = 34.8$$

Example: Round 34.818 to nearest whole number?

$$\begin{array}{r} & & & & \\ & & & \\ 3 \underline{4} \cdot 8 1 8 = 35.000 = 35 \end{array}$$

12) Round: I) Round the follow	ving to the nearest Hundred:			
a) 547.345 ≈	b) 289.58 ≈			
c) 99.95 ≈	d) 661.021≈			
II) Round the following to the	he nearest one decimal place :			
a) 847.962 ≈	b) 963.584 ≈			
c) 99.95 ≈	d) 251.429≈			
III) Round the following to the nearest Whole number:				
a) 904.974 ≈	b) 369.459 ≈			
c) 99.93 ≈	d) 543.617≈			
15				

h) Sum of 3.5 and 7

14) Fill in the boxes with the correct numbers to make the following statements true:

Double and Half:

• To double a number:

First you have to partition the number then double it

Example: Double 4.61?

Partition = 4 + 0.6 + 0.01Double = 8 + 1.2 + 0.02

Answer = 9.22

• To half a number:

First you have to partition the number then half it

Example: half 8.42? Odd numbers before you half it, add a zero Partition = 8 + 0.4 + 0.02Example: Half 0.7 half = 4 + 0.2 + 0.01Half 0.7 is the same as Answer = 4.21half 0.70 0.70 = 0.35Half: 10 = 5 30 = 15 50 = 25 70 = 35 90 = 45 0 18

Double each

digit then add

) Complete the following table:

	Half	Number	Double
1)		4.2	
2)			64.84
3)		8.7	
4)	3.25		
5)			2.8

Multiplying and Dividing:

Multiplying by 10, 100 and 1000:

When the multiplier is 10, 100 or 1000, we move the <u>decimal point</u> <u>to the right</u> by as many zeros after the digit 1 in the multiplier.

(multiplier could be 10 or100or1000 So By one digit, or two digits or three digits)

Dividing by 10, 100 and 1000:

When the multiplier is 10, 100 or 1000, we move the <u>decimal point</u> <u>to the left</u> by as many as zeros after the 1 in the multiplier.

(multiplier could be 10 or100or1000 So By one digit, or two digits or three digits)

Example:
$$573.1 \div 10 = 57.31$$

 $573.1 \div 100 = 5.731$
 $573.1 \div 1000 = 0.5731$
 $573.1 \div 1000 = 0.5731$
The number is getting smaller

16) Find the follow	ving: (Showing your work)
a) 5.67 x 100 =	b) 7.67 ÷ 10 =
c) 27.3 ÷ 100 =	d) 5.3 x 100 =
e) 12.36 x 1000 =	f) 26.8 ÷ 100
g) 8.9 x 100 =	h) 19 ÷ 1000

17) Fill in the missing numbers using 10 or 100 or 1000.

Multiplying & Dividing Decimals:

18) Solve the following:	
a) 4.8 ÷ 6 =	b) 2.8 ÷ 4 =
c) 0.63 ÷ 7 =	d) 1.6 ÷ 4 =
e) 0.81 ÷ 9 =	f) 3.5 ÷ 7 =
g) 0.032 ÷ 8 =	h) 0.042 ÷ 6 =
i) Find the quotient of 0.18 and 3	j) Find the quotient of 0.24 and 6

) Solve the following:

a) 28 x 0.3 =	b) 5.4 x 0.7 =
c) 0.4 x 8.5 =	d) 45 x 0.5 =
e) 3.7 x 1.2 =	f) 0.31 x 0.93 =
g) 6.6 x 2.4 =	h) 9.1 x 3.7 =
i) Find product of 7.5 and 6.2	j) Find product of 2.2 and 8.4

- **20)** Solve the following:
- a) The weight of a box is 3.7 kg. what will be the weight of 18 boxes?

b) Jan had \$ 20. He bought a board game for \$8.49 and a book for \$3.25. How much money does he have left?

c) Lily bought 6 boxes of pens each cost \$12.4 if she gave \$100 to the shopkeeper. How much does she get in change?

d) Sara run 5.85 miles each day for 9 days.

How many miles did she run altogether?

e) Mary and John are the fastest runners in the school. Mary's best record for running a mile is 9.5 minutes and John's is 6.72 minutes. What is the difference in their records?

f) Nicole and David want to buy a Mother's Day present for their mom. They found a purse for \$55.99. Nicole has \$32.8 and David has \$15.9 saved.

How much more money do they need in order to buy the purse for their mom?