

Grade 5 – Book A

(CAPS edition)
Revised for 2023

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To the learners: Always use rough paper to do more difficult calculations.

To the teachers: Some exercises are meant for mental arithmetic's (Speed tests).

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ADDITION (Speed test)**Exercise A1A:**

Date: _____

Write down the answer.

(a) $3 + 2 = \underline{\quad}$

(b) $4 + 4 = \underline{\quad}$

(c) $5 + 1 = \underline{\quad}$

(d) $6 + 5 = \underline{\quad}$

(e) $2 + 4 = \underline{\quad}$

(f) $7 + 3 = \underline{\quad}$

(g) $1 + 4 = \underline{\quad}$

(h) $8 + 2 = \underline{\quad}$

(i) $5 + 0 = \underline{\quad}$

(j) $5 + 3 = \underline{\quad}$

Total:

(a) $1 + 2 = \underline{\quad}$

(b) $2 + 3 = \underline{\quad}$

(c) $2 + 4 = \underline{\quad}$

(d) $7 + 5 = \underline{\quad}$

(e) $1 + 9 = \underline{\quad}$

(f) $6 + 3 = \underline{\quad}$

(g) $8 + 4 = \underline{\quad}$

(h) $5 + 7 = \underline{\quad}$

(i) $2 + 8 = \underline{\quad}$

(j) $7 + 2 = \underline{\quad}$

Total:

(a) $6 + 6 = \underline{\quad}$

(b) $7 + 6 = \underline{\quad}$

(c) $4 + 6 = \underline{\quad}$

(d) $5 + 8 = \underline{\quad}$

(e) $6 + 7 = \underline{\quad}$

(f) $4 + 9 = \underline{\quad}$

(g) $4 + 4 = \underline{\quad}$

(h) $7 + 7 = \underline{\quad}$

(i) $4 + 5 = \underline{\quad}$

(j) $8 + 8 = \underline{\quad}$

Total:

(a) $3 + 5 = \underline{\quad}$

(b) $3 + 4 = \underline{\quad}$

(c) $3 + 9 = \underline{\quad}$

(d) $3 + 7 = \underline{\quad}$

(e) $3 + 8 = \underline{\quad}$

(f) $3 + 12 = \underline{\quad}$

(g) $3 + 6 = \underline{\quad}$

(h) $3 + 3 = \underline{\quad}$

(i) $3 + 0 = \underline{\quad}$

(j) $9 + 9 = \underline{\quad}$

Total:

Total out of 40:

(h) The first 12 uneven natural numbers:

--	--	--	--	--	--	--	--	--	--	--	--

(i) Start with 42 and count in two's up to 60:

--	--	--	--	--	--	--	--	--	--	--

(j) Start with 145 and count in fives up to 180:

--	--	--	--	--	--	--	--	--	--

(k) Start with 168 count in three's up to 192:

--	--	--	--	--	--	--	--	--	--

(l) Start with 120 and account in fours up to 160:

--	--	--	--	--	--	--	--	--	--	--

(m) Start with 260 and count in sixes up to 320:

--	--	--	--	--	--	--	--	--	--	--

Exercise 2:

Date: _____

(1) Write the next 5 numbers in each pattern.

(a)

2 ; 4 ; 6 ; 8 ; 10 ;

--	--	--	--	--

(b)

5 ; 8 ; 11 ; 14 ; 17 ;

--	--	--	--	--

(c)

2 ; 7 ; 12 ; 17 ;

--	--	--	--	--	--

(d)

5 ; 6 ; 8 ; 11 ; 15 ;

--	--	--	--	--

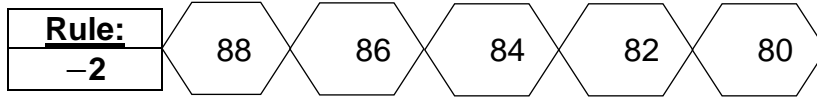
(e)

101 ; 111 ; 121 ;

--	--	--	--	--

Each pattern has a rule:

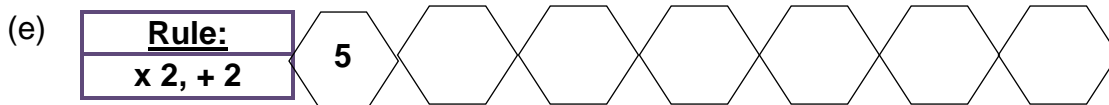
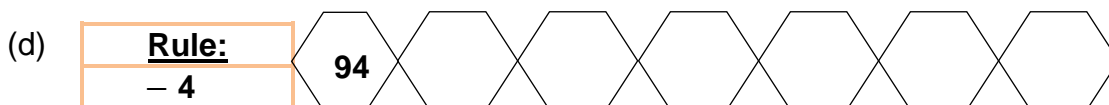
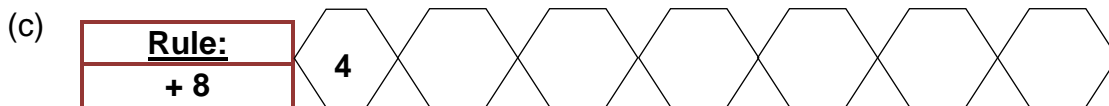
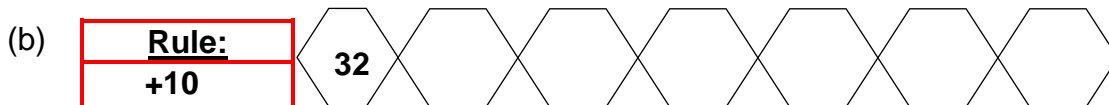
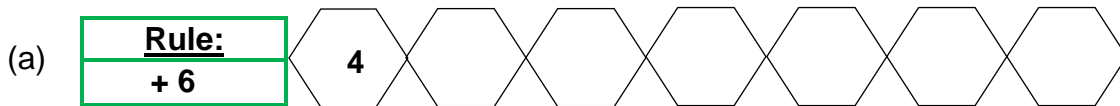
EXAMPLE A:



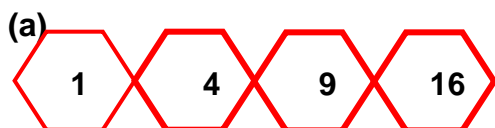
EXAMPLE B:



(2) Use the given rules to complete the patterns:



(3) Write down the rule for each pattern in words:





Exercise 3:

Date: _____

Use the number chart to answer the questions below.

101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200

(1) Write the numbers as requested as well as the rule in words.

(a) The numbers in the fourth column:

--	--	--	--	--	--	--	--	--	--

Rule: _____

(b) The numbers in the seventh row:

--	--	--	--	--	--	--	--	--	--

Rule: _____

(c) Add 10 to 121 and subtract 5 :

--

(d) 10 more than 134 is:

--

(e) Subtract 20 from 171 and add 2:

--

(f) 40 more than 120 is:

--

(g) 122 minus 7 and then add 7:

--

(h) $160 + 10 - 5$ is:

--

(i) $156 + 4 - 8 + 2$ is:

--

(j) $177 + 20 - 2$ is:

--

(k) $167 - 7 + 30$ is:

--

(l) $189 - 6 - 4 - 10$ is:

--

(m) $134 + 20 - 30$ is:

--

(n) $179 - 20 - 10 - 5$ is:

--

(o) $145 + 40 - 13$ is:

--

(p) $188 - 25 + 14$ is:

--

(q) $224 - 4 + 12$ is:

--

(r) $876 + 3 - 4$ is:

--

Did you see?

The rule for the columns is + 10 and the rule for the rows is +1

(2) Make up the tens and write down the answer.

(a) $11 + 29 - 3 =$ _____ (b) $18 + 2 + 19 =$ _____

(c) $11 + 19 - 1 =$ _____ (d) $5 + 45 - 2 =$ _____

(e) $45 - 5 + 12 =$ _____ (f) $7 + 13 - 6 =$ _____

(g) $14 - 4 + 30 =$ _____ (h) $78 - 8 - 10 =$ _____

(i) $120 - 30 + 15 =$ _____ (j) $110 + 34 - 10 =$ _____

(k) $156 - 6 + 30 =$ _____ (l) $254 - 54 + 6 =$ _____

(m) $657 - \underline{\hspace{2cm}} - 7 = \underline{600}$ (n) $784 - \underline{\hspace{2cm}} = \underline{700}$

*(o) $150 - 50 + \underline{\hspace{2cm}} = \underline{130}$ *(p) $300 + 5 - \underline{\hspace{2cm}} = \underline{299}$

*(q) $345 - 5 + \underline{\hspace{2cm}} = \underline{400}$ *(r) $467 + 13 + \underline{\hspace{2cm}} = \underline{500}$

(3) Write the missing numbers, as well as the rule on the right hand side.

(a)	136		140	142	144	Rule: + 2
-----	-----	--	-----	-----	-----	---------------------

(b)			20	15		- 5
-----	--	--	----	----	--	-----

(c)		106	113	120		+ 7
-----	--	-----	-----	-----	--	-----

(d)	124		144	154		+ 10
-----	-----	--	-----	-----	--	------

(e)	666	555				-111
-----	-----	-----	--	--	--	------

(f)		24	36			+ 12
-----	--	----	----	--	--	------

(g)	15			60	75	+ 15
-----	----	--	--	----	----	------

Chapter A2**Place Value****A.2.1 Place value and number value:**

This table shows the first 6 places left of the comma:

HTh	TTh	Th	H	T	O
					1
				1	0
			1	0	0
		1	0	0	0
	1	0	0	0	0
1	0	0	0	0	0
THOUSANDS COLUMN			HUNDREDS COLUMNS		

Remember:

Leave a gap between the hundreds and the thousands.

E.g. One hundred and thirty eight thousand four hundred and eleven
= 138 411

Exercise 1:

Date: _____

(1) Read the numbers out loud and write them in words.

(a) 3 548	(b) 12 576	(c) 20 570	(d) 56 413	(e) 120 005
-------------	--------------	--------------	--------------	---------------

(a) _____

(b) _____

(c) _____

(d) _____

(e) _____

(2) Write the following numbers:

- (a) Three thousand one hundred and seventy-eight
- (b) Twenty-seven thousand nine hundred and fourteen
- (c) Eighty-nine thousand eight hundred and forty-one
- (d) Ten thousand seven hundred and forty
- (e) Thirty-three thousand eight hundred and ninety-nine.
- (d) One hundred and forty-two thousand and six
- (e) Fourteen thousand one hundred and two
- (f) Three hundred and eighteen thousand six hundred and twelve
- (g) Four hundred and thirty-six thousand

→	
→	
→	
→	
→	
→	
→	
→	
→	

(3) Write down the numbers below.

(a) Each 'X' represents 1 units.

(i)				
TTh	Th	H	T	O
X				
X		X		
X	X	X		
X	X	X		X
X	X	X		X

(ii)				
TTh	Th	H	T	O
	X			
	X			
X	X			
X	X	X	X	
X	X	X	X	

(iii)					
HTh	TTh	Th	H	T	O
			X		
			X		X
		X	X	X	X
X		X	X	X	X
X		X	X	X	X

(b) Each 'X' represents 2 units.

(i)				
TTh	Th	H	T	O
X				
X		X	X	
X	X	X	X	
X	X	X	X	X

(ii)				
TTh	Th	H	T	O
	X			
	X			
X	X	X	X	
X	X	X	X	

(iii)					
HTh	TTh	Th	H	T	O
			X		
		X	X	X	X
X		X	X	X	X
X		X	X	X	X

Exercise2:

Date: _____

(1) Write in expanded notation.
Example: $34\ 189 = 30\ 000 + 4\ 000 + 100 + 80 + 9$

(a) $7\ 921 =$ _____

(b) $7\ 021 =$ _____

(c) $100\ 892 =$ _____

(d) $100\ 001 =$ _____

(e) $909\ 009 =$ _____

(f) $2\ 000\ 111 =$ _____

REMEMBER:
 $1T = 1\ X\ 10$ $1H = 1\ X\ 100$ $1Th = 1\ X\ 1\ 000$ $1TTh = 1\ X\ 10\ 000$ $1HTh = 1\ X\ 100\ 000$
(2) Fill in the missing numbers.

(a) $3\ 478 = (3 \times 1\ 000) + (4 \times 100) + (7 \times \underline{\hspace{2cm}}) + (8 \times \underline{\hspace{2cm}})$

(b) $6\ 510 = (6 \times \underline{\hspace{2cm}}) + (5 \times \underline{\hspace{2cm}}) + (1 \times 10)$

(c) $12\ 600 = (1 \times \underline{\hspace{2cm}}) + (2 \times \underline{\hspace{2cm}}) + (6 \times \underline{\hspace{2cm}})$

(d) $11\ 780 = (1 \times \underline{\hspace{2cm}}) + (1 \times \underline{\hspace{2cm}}) + (78 \times 10)$

(e) $5\ 104 = (5 \times \underline{\hspace{2cm}}) + (1 \times \underline{\hspace{2cm}}) + (4 \times \underline{\hspace{2cm}})$

(3) Complete the sums.

(a) $23\ 478 = (23 \times 1\ 000) + (47 \times 10) + (8 \times 1)$

(b) $30\ 560 = (3 \times 10\ 000) + (56 \times \underline{\hspace{2cm}})$

(c) $45\ 678 = (45 \times \underline{\hspace{2cm}}) + (6 \times \underline{\hspace{2cm}}) + (78 \times 1)$

(d) $311\ 780 = (311 \times \underline{\hspace{2cm}}) + (78 \times \underline{\hspace{2cm}})$

(e) $12\ 346 = (12 \times \underline{\hspace{2cm}}) + (34 \times \underline{\hspace{2cm}}) + (6 \times 1)$

(f) $23\ 400 = (2 \times \underline{\hspace{2cm}}) + (34 \times \underline{\hspace{2cm}})$

(g) $45\ 721 = (45 \times \underline{\hspace{2cm}}) + (72 \times \underline{\hspace{2cm}}) + (1 \times 1)$

(h) $14\ 500 = (145 \times \underline{\hspace{2cm}})$

(i) $76\ 940 = (7\ 694 \times \underline{\hspace{2cm}})$

(j) $67\ 352 = (673 \times \underline{\hspace{2cm}}) + (52 \times \underline{\hspace{2cm}})$

Exercise 3:

Date: _____

(1) More place value to practice.**(a) Write down the following numbers:**

- | | |
|---------------------------------|----------------------------------|
| (i) 14 ones = _____ | (ii) 34 tens = _____ |
| (iii) 20 tens = _____ | (iv) 51 hundred = _____ |
| (v) 80 hundred = _____ | (vi) 43 thousand = _____ |
| (vii) 21 ten thousand = _____ | (viii) 10 thousand = _____ |
| (ix) 5 hundred thousand = _____ | (x) 65 thousand = _____ |
| (xi) 120 hundred = _____ | (xii) 30 ten thousand = _____ |
| (xiii) 140 ones = _____ | (xiv) 1 hundred thousand = _____ |
| (xv) 23 hundred = _____ | (xvi) 2 x 45 tens = _____ |
| (xvii) 4 x 25 tens = _____ | (xviii) 10 times 10 tens = _____ |

(b) Write down the correct numbers.

- | | |
|-----------------------------|----------------------------------|
| (i) 10 T = _____ | (ii) 14 Th = _____ |
| (iii) 10 TTh = _____ | (iv) 80 Th = _____ |
| (v) 2 H + 6T = _____ | (vi) 13 T + 24Th + 2 O = _____ |
| (vii) 2 TTh + 3 H = _____ | (viii) 41 T = _____ |
| (ix) 12 Th = _____ | (x) 12 TTh = _____ |
| (xi) 162 H = _____ | (xii) 7 H + 3 T + 24 O = _____ |
| (xiii) 23 H + 34 Th = _____ | (xiv) 12 T + 32 H = _____ |
| _____ | _____ |
| _____ | _____ |
| (xv) 12 Th + 120 H = _____ | (xvi) 34 Th + 45 T + 2 H = _____ |
| _____ | _____ |
| _____ | _____ |

