

## Section 1: Whole Numbers

TERM 1

## Question 1 | Place Value and Value

1. Fill each digit in the correct place value column.

	Number	Place Value				Number	Place Value		
		Hundreds	Tens	Units			Hundreds	Tens	Units
a)	315	3	1	5	d)	152			
b)	827				e)	780			
c)	742				f)	909			

2. Write down the place value of each underlined digit.

Place value is what column (H, T or U) the digit is in.

- a) 895 H      b) 256 .....      c) 731 .....      d) 374 .....
- e) 893 .....      f) 314 .....      g) 519 .....      h) 192 .....
- i) 279 .....      j) 471 .....      k) 720 .....      l) 809 .....

3. Write down the value of each underlined digit.

Value is how much a digit in a number is worth.

- a) 809 800      b) 567 .....      c) 573 .....      d) 735 .....
- e) 235 .....      f) 328 .....      g) 975 .....      h) 390 .....
- i) 319 .....      j) 907 .....      k) 572 .....      l) 201 .....

## Question 2 | 3-digit numbers in words

1. Complete:
- a) Six hundred and forty two is written 642.
- b) Four hundred and seven is written .....
- c) One hundred and thirteen is written .....
- d) Six hundred and eighty five is written .....



## Question 3 | Short Form

1. Complete:
- a)  $900 + 50 + 3 = \dots\dots\dots$
- b)  $800 + 10 + 4 = \dots\dots\dots$
- c)  $700 + 60 + 5 = \dots\dots\dots$
- d)  $400 + 90 + 7 = \dots\dots\dots$
2. Complete:
- a)  $90 + 500 + 3 = \dots\dots\dots$
- b)  $8 + 10 + 400 = \dots\dots\dots$
- c)  $700 + 6 + 50 = \dots\dots\dots$
- d)  $40 + 900 + 7 = \dots\dots\dots$
3. Complete:
- a)  $900 + 5 = \dots\dots\dots$
- b)  $300 + 80 = \dots\dots\dots$
- c)  $40 + 700 = \dots\dots\dots$
- d)  $7 + 400 = \dots\dots\dots$
4. Circle the correct answer.
- a)  $500 + 6$  is equal to: 5006 ; 56 ; 506 ; 6005
- b)  $70 + 800$  is equal to: 70800 ; 807 ; 870 ; 80070

**Question 4** | Expanded Form

1. Write the following numbers in expanded form.

- a)  $527 = 500 + 20 + 7$       b)  $878 = \dots\dots\dots$       c)  $616 = \dots\dots\dots$   
 d)  $303 = \dots\dots\dots$       e)  $182 = \dots\dots\dots$       f)  $907 = \dots\dots\dots$

**Question 5** | Ordering Numbers

1. Order the numbers from the smallest to the biggest.

- a) 765, 657, 576, 756 .....  
 b) 281, 218, 192, 128 .....

2. Order the numbers from the biggest to the smallest.

- a) 836, 683, 386, 863 .....  
 b) 928, 948, 991, 982 .....

**Question 6** | Comparing Numbers1. Insert the symbol  $>$  or  $<$  to make correct statements.

- a)  $314$    $341$       b)  $550$    $505$       c)  $989$    $998$   
 d)  $758$    $785$       e)  $104$    $140$       f)  $886$    $868$

2. Insert the symbol  $>$ ,  $<$  or  $=$  to make correct statements.

- a)  $300 + 4$    $4 + 300$       b)  $500 + 50$    $700 - 50$   
 c)  $100 + 30$    $300 + 10$       d)  $400 + 3$    $40 + 30$   
 e)  $100 + 5$    $4 + 100$       f)  $899$    $900 - 1$

**Question 7** | Counting in 2s, 3s and 5s

1. Complete each number sequence.

- a) 5 ; 7 ; 9 ; ..... ; ..... ; 15 ; .....      Rule: .....  
 b) 7 ; 10 ; 13 ; ..... ; 19 ; ..... ; .....      Rule: .....  
 c) 16 ; 21 ; ..... ; 31 ; ..... ; ..... ; .....      Rule: .....  
 d) 48 ; ..... ; 42 ; ..... ; 36 ; 33 ; .....      Rule: .....  
 e) 124 ; 129 ; 134 ; ..... ; ..... ; 149.      Rule: .....  
 f) 350 ; 348 ; ..... ; ..... ; 342 ; .....      Rule: .....  
 g) ..... ; 415 ; 418 ; ..... ; ..... ; 427.      Rule: .....



## Question 8 | Number Facts

See Concepts 1 – 3 (pp. 241-242)

1. Complete:
- |                     |                    |                     |
|---------------------|--------------------|---------------------|
| a) 14 units = 14    | b) 2 tens = 20     | c) 15 tens = 150    |
| 24 units = .....    | 3 tens = .....     | 34 tens = .....     |
| 54 units = .....    | 7 tens = .....     | 83 tens = .....     |
| d) 2 hundreds = 200 | e) 3 units = ..... | f) 12 units = ..... |
| 5 hundreds = .....  | 3 tens = .....     | 12 tens = .....     |
| 7 hundreds = .....  | 3 hundreds = ..... | 92 tens = .....     |



2. Study: In the number 82 there are 8 tens.

We know that 8 tens = 80 units.

Therefore, in 82 there are 82 units. (80 units + 2 units)

3. Complete:
- |   |   |
|---|---|
| a) In 35 there are 3 tens or 35 units.        | b) In 43 there are ..... tens or ..... units. |
| c) In 68 there are ..... tens or ..... units. | d) In 87 there are ..... tens or ..... units. |

- \*4. Study:
- |   |     |  |
|---|-----|--|
|   | HTU |  |
| In the number <u>4</u> 35 there are 4 hundreds. |     |  |
| In the number <u>43</u> 5 there are 43 tens.    |     |  |
| In the number <u>435</u> there are 435 units.   |     |  |

5. Complete:
- |  |
|--|
| a) In 325 there are 3 hundreds, 32 tens or 325 units.          |
| b) In 453 there are ..... hundreds, ..... tens or ..... units. |
| c) In 728 there are ..... hundreds, ..... tens or ..... units. |
| d) In 893 there are ..... hundreds, ..... tens or ..... units. |



6. Add 2 tens to each of the following numbers:

Examples:	573:	“say 57 tens + 2 tens = 59 tens.”	Answer: 593
	695:	“say 69 tens + 2 tens = 71 tens.”	Answer: 715

- |               |               |               |               |
|---------------|---------------|---------------|---------------|
| a) 125: ..... | b) 473: ..... | c) 584: ..... | d) 792: ..... |
|---------------|---------------|---------------|---------------|

7. Add 50 to each of the following numbers: (Remember 50 = 5T)

Example:	376:	“say 37 tens + 5 tens = 42 tens.”	Answer: 426
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- |               |               |               |               |
|---------------|---------------|---------------|---------------|
| a) 155: ..... | b) 383: ..... | c) 687: ..... | d) 896: ..... |
|---------------|---------------|---------------|---------------|

8. Subtract 30 from each of the following numbers:

Example:	428:	“say 42 tens – 3 tens = 39 tens.”	Answer: 398
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- |               |               |               |               |
|---------------|---------------|---------------|---------------|
| a) 184: ..... | b) 235: ..... | c) 627: ..... | d) 816: ..... |
|---------------|---------------|---------------|---------------|

**Question 9** | Mental Maths

1. Complete by doing mental calculations.

- a)  $125 + 70 = \dots\dots\dots$     b)  $324 + 50 = \dots\dots\dots$     c)  $415 + 90 = \dots\dots\dots$     d)  $527 + 80 = \dots\dots\dots$   
 e)  $651 + 60 = \dots\dots\dots$     f)  $739 + 80 = \dots\dots\dots$     g)  $862 + 90 = \dots\dots\dots$     h)  $873 + 90 = \dots\dots\dots$

**Question 10** | Counting in 10s

1. Complete each number sequence.

- a) 48 ; 58 ; 68 ; ..... ; ..... ; 98 ; ..... ; ..... ; 128.      Rule: .....
- b) 163 ; 173 ; 183 ; ..... ; ..... ; ..... ; 223.      Rule: .....
- c) 548 ; 538 ; 528 ; ..... ; ..... ; 498 , ..... .      Rule: .....
- d) 658 ; 668 ; ..... ; 688 ; ..... ; ..... ; ..... .      Rule: .....
- e) 851 ; 841 ; ..... ; 821 ; ..... ; ..... ; ..... ; 781 ; ..... .      Rule: .....

**Question 11** | Counting in 100s

1. Complete each number sequence.

- a) 412 ; 512 ; 612 ; ..... ; ..... ; 912 ; ..... .      Rule: .....
- b) 976 ; 876 ; ..... ; ..... ; 576 ; 476 ; ..... .      Rule: .....

**Question 12** | Odd and Even Numbers

1. Study:    Even numbers end in 0, 2, 4, 6 or 8.    For example: 286 is even.

                  Odd numbers end in 1, 3, 5, 7, or 9.    For example: 285 is odd.

2. Which numbers below are even?

115 ,      524 ,      888 ,      547 ,      610 ,      501 ,      330

3. Which numbers below are odd?

113 ,      565 ,      742 ,      997 ,      451 ,      880 ,      139

4. Complete the following sentences.

- a) The even numbers between 101 and 108 are .....
- b) The odd numbers between 255 and 263 are .....
- c) The three even numbers just after 886 are .....
- d) The largest 3-digit odd number is .....
- e) The smallest 3-digit even number is .....
- f)\* All even numbers are divisible by .....



**Question 13** | Building Numbers

1. Use the following digits to make the biggest number and the smallest number.

3	8	6
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a) Biggest number: .....

b) Smallest number: .....

2.\* Use the following digits to make the biggest number and the smallest number.

0	5	9
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a) Biggest number: .....

b) Smallest number: .....

**Question 14** | Rounding off to the nearest 10

1. Study: Rounding off numbers to the nearest 10:

10	11	12	13	14	15	16	17	18	19	20
----	----	----	----	----	----	----	----	----	----	----

11, 12, 13 and 14  
are closer to 10 than to 20.

16, 17, 18 and 19  
are closer to 20 than to 10.

Even though 15 lies exactly between 10 and 20,  
15 rounded off to the nearest 10  $\approx$  20.

2. Round each of the following numbers off to the nearest 10.

Example 1:  $27 \approx 30$  because it is closer to 30 than it is to 20.

Example 2:  $52 \approx 50$  because it is closer to 50 than it is to 60.

Example 3:  $65 \approx 70$  (65 is exactly halfway between 60 and 70, so we “round up”).

a)  $12 \approx$  ..... b)  $82 \approx$  ..... c)  $74 \approx$  ..... d)  $28 \approx$  .....

e)  $39 \approx$  ..... f)  $45 \approx$  ..... g)  $61 \approx$  ..... \*h)  $95 \approx$  .....

3. Round each of the following numbers off to the nearest 10.

Example 1: In 132 there are 13 tens.

To round it off to the nearest ten you must ask:  
is 132 closer to 13 tens or is it closer to 14 tens?

Answer:  $132 \approx 130$

Think:  $132 \rightarrow 130?$  ✓  
or  
 $132 \rightarrow 140?$

Use the 2 (the **units** digit) to decide.

Example 2: In 278 there are 27 tens.

To round it off to the nearest ten you must ask:  
is 278 closer to 27 tens or is it closer to 28 tens?

Answer:  $278 \approx 280$

Think:  $278 \rightarrow 270?$   
or  
 $278 \rightarrow 280?$  ✓

Use the 8 (the **units** digit) to decide.

a)  $182 \approx$  ..... b)  $383 \approx$  ..... c)  $679 \approx$  ..... d)  $284 \approx$  .....

e)  $245 \approx$  ..... f)  $547 \approx$  ..... g)  $984 \approx$  ..... \*h)  $495 \approx$  .....

i)  $715 \approx$  ..... j)  $674 \approx$  ..... k)  $408 \approx$  ..... \*l)  $997 \approx$  .....

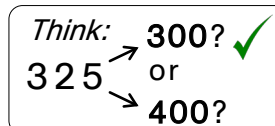
**Question 15** | Rounding off to the nearest 100

1. Round each of the following numbers off to the nearest 100.

Example 1: In 325 there are 3 hundreds.

To round it off to the nearest hundred you must ask: is 325 closer to 3 hundred or is it closer to 4 hundred?

Answer: **325 ≈ 300**

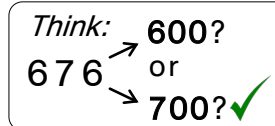


Use the 2 (the **tens** digit) to decide.

Example 2: In 676 there are 6 hundreds.

To round it off to the nearest hundred you must ask: is 676 closer to 6 hundred or is it closer to 7 hundred?

Answer: **676 ≈ 700**



Use the 7 (the **tens** digit) to decide.

- a) 183 ≈ .....      b) 374 ≈ .....      c) 652 ≈ .....      d) 574 ≈ .....
- e) 249 ≈ .....      f) 547 ≈ .....      g) 125 ≈ .....      h) 295 ≈ .....
- i) 752 ≈ .....      j) 602 ≈ .....      k) 924 ≈ .....      \*l) 997 ≈ .....

**Question 16** | Rounding off to the nearest 10 or 100

1. Complete:

	Number	Rounded off to the nearest	
		10	100
a)	732		
b)	137		
c)	948		
*d)	199		
*e)	396		

2\*. Which numbers below will give 80 when rounded off to the nearest 10?

- 84    68    79    88    85    91    83    76

3. There are 128 cities in South Africa that have recycling programmes.

Round this number off to the nearest 10. ....

**Question 17** | Counting in 25s and 50s

1. Complete each number sequence.

- a) 25 ; 50 ; ..... ; 100 ; ..... ; ..... ; 175 ; .....      Rule: .....
- b) 100 ; 150 ; ..... ; 250 ; ..... ; .....      Rule: .....
- c)\* 160 ; 210 ; ..... ; 310 ; ..... ; ..... ; 460.      Rule: .....
- d)\* 500 ; 475 ; 450 ; ..... ; ..... ; 375 ; .....      Rule: .....

