

Section 1: Whole Numbers

TERM 1

Question 1 | 5-digit Numbers (Revision)

1. Study: The number below is said, “twenty nine thousand, three hundred and seventy five”.



TTh	Th	H	T	U
2	9	3	7	5

2. Write down the value of each underlined digit.

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

- a) 13 935 b) 34 598 c) 76 038
 d) 90 426 e) 41 012 f) 35 197

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

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

Think: “Position”

- a) 15 927 b) 24 576 c) 36 208
 d) 98 362 e) 85 281 f) 68 645

4. Complete:

- a) Eighteen thousand, five hundred and eleven is written
 b) Forty five thousand one hundred and three is written
 c) Sixty nine thousand, nine hundred and seventy seven is written
 d) Ninety-nine thousand and nine is written

5. Write each of the numbers in words.

- a) 25 440:
 b) 98 069:



- *6. Write in short form.

- a) 30 thousands + 8 units = b) 55 thousands + 5 tens =
 c) 78 thousands + 9 hundreds = d) 8 ten-thousands + 3 hundreds =
 e) 5 ten-thousands + 6 units = f) 65 thousands + 4 tens =

7. Complete: a) In 23 625 there are 23 thousands, or 236 hundreds or 2362 tens.

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- b) In 54 163 there are thousands, or hundreds or tens.
 c) In 93 805 there are thousands, or hundreds or tens.
 d) In 78 514 there are thousands, or hundreds or tens.

Question 2 | Mental Maths (up to 5-digit Numbers)

1.1 Complete:

- a) $9 + 1 =$
- b) $99 + 1 =$
- c) $999 + 1 =$
- d) $9999 + 1 =$

1.2 Complete:

- a) $0 + 10 =$
- b) $90 + 10 =$
- c) $990 + 10 =$
- d) $9990 + 10 =$

1.3 Complete:

- a) $0 + 100 =$
- b) $90 + 100 =$
- c) $990 + 100 =$
- d) $9990 + 100 =$

1.4 Complete:

- a) $9 + 3 =$
- b) $99 + 3 =$
- c) $999 + 3 =$
- d) $9999 + 3 =$

1.5 Complete:

- a) $90 + 40 =$
- b) $990 + 40 =$
- c) $990 + 400 =$
- d) $9990 + 400 =$

1.6 Complete:

- a) $99 + 7 =$
- b) $99 + 50 =$
- c) $990 + 80 =$
- d) $9990 + 200 =$

Question 3 | Number Sequences (Counting in multiples of 10)

1. Fill in the missing numbers in each.

- a) 845 ; 865 ; 885 ; ; ; 945 ; ; 985 ; Rule:
- b) 1528 ; 1578 ; 1628 ; ; ; 1778 ; ; Rule:
- c) 2893 ; 2843 ; 2793 ; ; 2693 ; ; ; Rule:

Question 4 | Number Sequences (Counting in multiples of 100)

1. Fill in the missing numbers in each.

- a) 3 416 ; 3 616 ; ; 4 016 ; ; ; ; 4 816. Rule:
- b) 8 223 ; 8 723 ; 9 223 ; ; 10 223 ; ; Rule:
- c) 23 541 ; 23 441 ; 23 341 ; ; 23 141 ; ; ; 22 841. Rule:
- d)* 35 089 ; 35 389 ; 35 689 ; ; 36 289 ; ; ; Rule:

Question 5 | Number Sequences (Counting in multiples of 1000)

1. Fill in the missing numbers in each.

- a) 19 436 ; 18 436 ; 17 436 ; ; ; Rule:
- b) 42 585 ; 47 585 ; 52 585 ; ; ; 67 585 ; Rule:
- c) 51 750 ; 48 750 ; 45 750 ; ; ; 36 750 ; Rule:

Question 6 | Comparing Numbers

1. Insert $>$, $<$ or $=$ to make true statements.

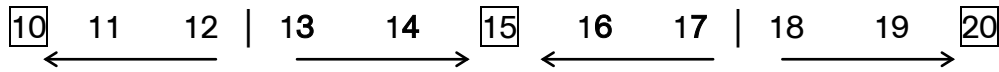
- a) $789\ 987$ $789\ 879$ b) $15\ 254 + 1$ $15\ 254 \times 1$
 c) $99\ 997 + 1$ $99\ 999 - 1$ d) $52\ 980 + 300$ $53\ 580 - 200$

2. Insert $>$, $<$ or $=$ to make true statements.

- a) 5×10 5×100 b) 7×100 $7 \times 10 \times 10$ c) 10×100 9999
 d) 17×1000 $1\ 700$ e) $52 \times 10 \times 10$ $52\ 000$ f) $75\ 000$ 75×100

Question 7 | Rounding off to the nearest 5

1. Use the number line below to help you when rounding off to the nearest 5.



Examples: 23 is closer to 25 than it is to 20.
 Therefore **23** \approx **25** when rounded off to the nearest 5.
 138 is closer to 140 than it is to 135.
 Therefore **138** \approx **140** when rounded off to the nearest 5.



2. Round each number off to the nearest 5.

- a) $12 \approx$ b) $17 \approx$ c) $61 \approx$ d) $26 \approx$
 e) $33 \approx$ f) $48 \approx$ g) $84 \approx$ *h) $98 \approx$

3. Round each number off to the nearest 5.

- a) $143 \approx$ b) $528 \approx$ c) $764 \approx$
 $2\ 143 \approx$ $3\ 528 \approx$ $8\ 764 \approx$
 $12\ 143 \approx$ $23\ 528 \approx$ $68\ 764 \approx$

Question 8 | Rounding off to the nearest 5, 10, 100 or 1000

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1. Complete:

Number	Rounded off to the nearest			
	5	10	100	1000
a) 2 743				
b) 15 397				
c) 56 974				

2*. Which numbers below will give 8000 when rounded off to the nearest 1000?

- 8450 6871 7912 8821 7499 7512

Question 9 | 6-digit Numbers

1. Study: This number is said:
“four hundred and twenty five **thousand**, seven hundred and eighty three”.



HTh	TTh	Th	H	T	U
4	2	5	7	8	3

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

- a) 595 803 b) 125 927 c) 297 125
d) 935 762 e) 785 793 f) 481 045

3. Write down the value of each underlined digit.

- a) 821 325 b) 278 597 c) 987 009
d) 347 182 e) 538 815 f) 365 937

4. Complete:

Thousands
“space”

- a) Six hundred and twelve thousand, five hundred and forty-two is written 612 542
b) Two hundred and thirty thousand and seventy-five is written
c) Nine hundred and three thousand, six hundred and ninety four is written
d) One hundred and eleven thousand, one hundred and one is written

5. Write each of the following numbers in words.

- a) 402 817:
b) 925 062 :
c) 707 077 :



Question 10 | Expanded Form and Short Form

1. Complete to write each of the following numbers in expanded form.

- a) $403\,813 = 400\,000 + \dots + \dots + \dots + 3$ b) $851\,706 = 8\text{HTh} + \dots\text{TTh} + \dots\text{Th} + \dots\text{H} + \dots\text{U}$
c) $500\,537 = \dots \times 100\,000 + \dots \times 100 + \dots \times 10 + \dots$ d) $657\,009 = \dots + 50\,000 + \dots + \dots$

- *2. Write in short form.

- a) $300\,000 + 80\,000 + 5000 + 40 = 385\,040$ b) $200 + 80\,000 + 7000 + 600\,000 = \dots$
c) $70 + 9 + 500\,000 + 5 + 4000 = \dots$ d) $400 + 300\,000 + 50 + 700 = \dots$
e) $(7 \times 10\,000) + (4 \times 100\,000) + (2 \times 1000) + (5 \times 100) + (4 \times 10) + 6 = \dots$
f) $(7 \times 10) + (7 \times 100\,000) + (9 \times 10) + (6 \times 10\,000) + (3 \times 1000) = \dots$

Question 11 | Numbers Facts

1. Complete:

- | | | |
|------------------|----------------------|------------------------|
| a) 3 tens = 30 | b) 4 hundreds = 400 | c) 3 thousands = 3 000 |
| 9 tens = | 8 hundreds = | 7 thousands = |
| 10 tens = | 10 hundreds = | 10 thousands = |
| 15 tens = | 19 hundreds = | 64 thousands = |
| 87 tens = | 78 hundreds = | 94 thousands = |
| 100 tens = | 100 hundreds = | 100 thousands = |
| 234 tens = | 317 hundreds = | 436 thousands = |

2. Complete: a) In 123 756 there are 123 thousands, 1 237 hundreds or 12 375 tens.
- b) In 541 263 there are thousands, or hundreds or tens.
- c) In 903 852 there are thousands, or hundreds or tens.
- d) In 728 451 there are thousands, or hundreds ortens.

Question 12 | Number Sequences (Mixed)

1. Fill in the missing numbers in each.

- a) 100 035 ; 100 040 ; 100 045 ; ; ; Rule:
- b) 250 427 ; ; 250 421 ; ; ; 250 412. Rule:
- c) 368 085 ; 368 095 ; ; ; ; 368 135. Rule:
- d) 578 204; 578 404 ; ; ; 579 004 ; Rule:
- e) 453 207 ; 452 207 ; ; ; ; 448 207. Rule:
- f) 753 018 ; 773 018 ; ; ; 833 018 ; Rule:

Question 13 | Rounding Off

1. Complete:

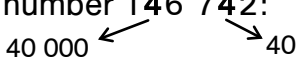
	Number	Rounded off to the nearest			
		5	10	100	1000
a)	754 386				
b)	591 832				
c)*	389 768				
d)*	615 983				

Question 14 | “More than” and “Less Than”

1. The number which is:

- a) 1 more than 207 579 is b) 1 less than 483 976 is
 10 more than 207 579 is 10 less than 483 976 is
 100 more than 207 579 is 100 less than 483 976 is
- c)* 1 more than 125 299 is d)* 1 less than 834 000 is
 10 more than 315 990 is 10 less than 524 000 is
 100 more than 827 912 is 100 less than 208 002 is
 1000 more than 489 371 is 1000 less than 850 000 is

Question 15 | Value: Challenge

1. a) In the number 146 742: The value of the digit 4 on the left is **1000** times the value of the digit 4 on the right.

- b) In the number 485 135: The value of the digit 5 on the left is times the value of the digit 5 on the right.
- c) In the number 391 943: The value of the digit 9 on the left is times the value of the digit 9 on the right.
- d) In the number 329 537: The value of the digit 3 on the left is times the value of the digit 3 on the right.
2. In the number 847 381:
- a) The value of the 4 is b) The value of the 3 is
- c) The value of the 4 plus the value of the 7 is equal to
- d) The value of the 7 minus the value of the 3 is equal to
- e) The value of the 3 multiplied by the value of the 1 is equal to
- f) The value of the 8 on the left is times the value of the 8 on the right.

3. Use the following digits to make the:

1	6	5	0	2	8
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- a) biggest number.
- *b) smallest odd number.

Question 16 | Factors of 2-digit Numbers

1. Study:

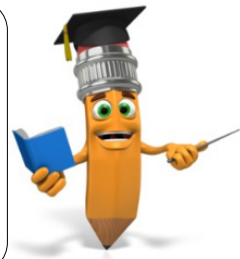
$1 \times 20 = 20$
 ↑ factor ↑ factor

$2 \times 10 = 20$
 ↑ factor ↑ factor

$4 \times 5 = 20$
 ↑ factor ↑ factor

1, 2, 4, 5, 10, 20 are the factors of 20.

Always write factors in pairs, from the outside in.



2. Complete:
- a) The factors of 8 are
 - b) The factors of 18 are
 - c) The factors of 24 are
 - d) The factors of 36 are
 - *e) The factors of 42 are

Always start with 1 and the number itself and then fill in the rest of the factor partners from the outside in.

Question 17 | Prime Numbers and Composite Numbers

1. Study: A prime number is a number that only has 2 factors, itself and 1.
Examples: 5, 13, 29

A composite number is a number that has more than 2 factors.
Examples: 6, 15, 32

2. Write down the factors of each number.
Mark the prime numbers with a "P" and the composite numbers with a "C".
- | | | |
|-------------|-------------|--------------|
| a) 1: | b) 6: | c) 11: |
| 2: | 7: | 12: |
| 3: | 8: | 13: |
| 4: | 9: | 14: |
| 5: | 10: | 15: |
3. Complete:
- a) The prime numbers between 0 and 15 are
 - b) Is 39 a prime number or a composite number?
 - c) True or False? 2 is the only even prime number.

Question 18 | Prime Factors

1. Study: A prime factor of a number:

- a) divides into the number exactly i.e. is a factor.
- b) is a prime number.

2. Complete:
- | | | |
|------------------------------|---------------------------|-------------------------|
| 2.1 The factors of | 2.2. The prime factors of | 3. The prime factors of |
| a) 12 are 1, 2, 3, 4, 6, 12. | a) 12 are 2 and 3. | a) 15 are 3 and 5. |
| b) 20 are | b) 20 are | b) 24 are |
| c) 42 are | c) 42 are | c) 33 are |
| d) 39 are | d) 39 are | d) 40 are |
| | | *e) 60 are |