WORKSHEET 01
Place Value & Big Numbers
Year 5 Mathematics — Number & Money Strand
Australian Curriculum v9.0 — AC9M5N01

Name: _____   **Date:** _____

Section 1: Fluency - Value of Digits

Question 1: What is the value of the underlined digit in 4,567,812?

Answer: _____

Question 2: What is the value of the underlined digit in 3,204,567?

Answer: _____

Question 3: In the number 8,932,451, what digit is in the hundred thousands place?

Answer: _____

Question 4: How many hundreds are in 25,000?

Answer: _____

Question 5: How many thousands are in 340,000?

Answer: _____

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Question 6: What is the value of the digit 7 in 2,671,903?

Answer: _____

Question 7: In the number 5,048,216, which digit is in the ten thousands place?

Answer: _____

Place Value Penguin Says:

"You're a Place Value Powerhouse!"

Joke Time: Why did the number go to the doctor? Because it had too many digits!

Section 2: Reasoning - Expanded Notation

Question 8: Write 304,560 in expanded form.

Answer: _____

Question 9: Which number is represented by: 50,000 + 4,000 + 30 + 2?

Answer: _____

Question 10: Write 1,256,789 in expanded form.

Answer: _____

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Question 11: What number is: 700,000 + 60,000 + 5,000 + 400 + 80 + 3?

Answer: _____

Question 12: Break down 892,015 into expanded notation.

Answer: _____

Question 13: Write the number that equals: 200,000 + 9,000 + 70 + 1.

Answer: _____

Question 14: Use the place value chart below to write 4,321,876 in expanded form.

M	HTh	TTh	Th	H	T	O
4	3	2	1	8	7	6

Answer: _____

Number Ninja Says:

"You're a Big Number Boss!"

Joke Time: What do you call a number that can't stay in one place?
A roamin' numeral!

Section 3: Challenge - Number Maker

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Question 15: Use the digits 5, 0, 8, 2, 1, 9 to make the **largest** possible 6-digit number.

Answer: _____

Question 16: Use the digits 7, 3, 6, 4, 1 to make the **smallest** possible 5-digit number (the first digit cannot be zero).

Answer: _____

Question 17: Using the digits 9, 2, 4, 6, 0, 3, create a number where the digit 4 is in the ten thousands place.

Answer: _____

Question 18: I am a 6-digit number. My hundred thousands digit is 5. My tens digit is twice my ones digit. My ones digit is 3. All other digits are 0. What number am I?

Answer: _____

Question 19: Create the largest even number using the digits: 8, 5, 1, 7, 2, 9.

Answer: _____

Question 20: What is the difference between the largest and smallest 5-digit numbers you can make with 6, 2, 9, 1, 4?

Answer: _____

Question 21: Using digits 3, 7, 0, 5, 8, make a number closest to 500,000.

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Answer: _____

Question 22: I have 4 hundred thousands, 6 tens, and 9 ones. All other place values are zero. What number am I?
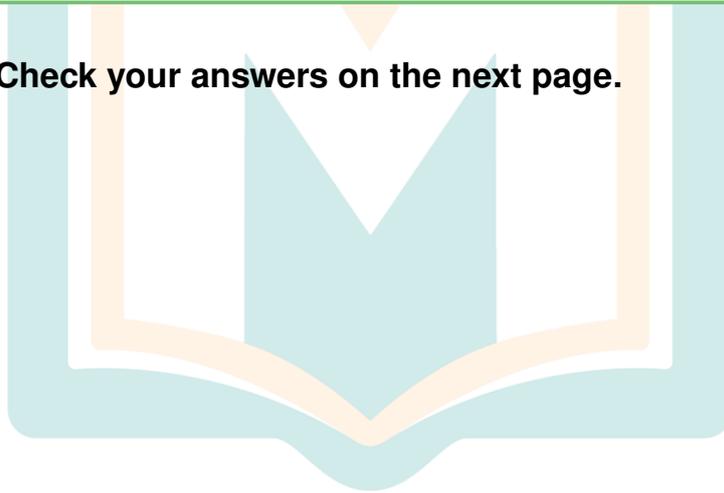
Answer: _____

Super Star Says:

"You're a Challenge Champion!"

Joke Time: Why was the number 6 afraid of 7?
Because 7, 8, 9!

Great work! Check your answers on the next page.

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WORKSHEET 01
ANSWER KEY

Section 1: Fluency - Value of Digits

1. 500,000 (five hundred thousand)
2. 3,000,000 (three million)
3. 9
4. 250 hundreds
5. 340 thousands
6. 70,000 (seventy thousand)
7. 4

Section 2: Reasoning - Expanded Notation

8. 300,000 + 4,000 + 500 + 60
9. 54,032
10. 1,000,000 + 200,000 + 50,000 + 6,000 + 700 + 80 + 9
11. 765,483
12. 800,000 + 90,000 + 2,000 + 10 + 5
13. 209,071
14. 4,000,000 + 300,000 + 20,000 + 1,000 + 800 + 70 + 6

Section 3: Challenge - Number Maker

15. 985,210
16. 13,467
17. Possible answers: 943,260 or 964,230 or 340,269, etc. (Any 6-digit number with 4 in the ten thousands place)
18. 500,063
19. 987,512
20. 96,421 - 12,469 = 83,952
21. 503,780 or 508,730 (closest to 500,000)
22. 400,069

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WORKSHEET 02
Ordering, Comparing & Number Lines
Year 5 Mathematics — Number & Money Strand
Australian Curriculum v9.0 — AC9M5N01

Name: _____   **Date:** _____

Section 1: Fluency - Comparing Numbers

Instructions: Use $<$, $>$, or $=$ to compare each pair of numbers.

Question 1: 234,567 _____ 234,576

Question 2: 890,123 _____ 890,123
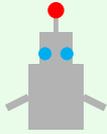
Question 3: 1,456,000 _____ 1,446,000

Question 4: 723,981 _____ 732,981

Question 5: 505,050 _____ 500,505

Question 6: 2,000,000 _____ 1,999,999

Question 7: 678,432 _____ 678,423

Question 8: 345,670 _____ 345,067

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Compare-Bot Says:
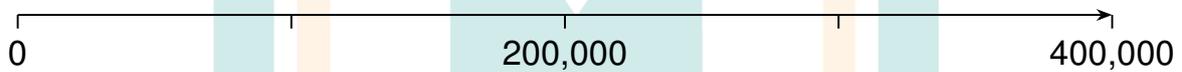
"You're a Comparison Champion!"

Joke Time: What did zero say to eight?
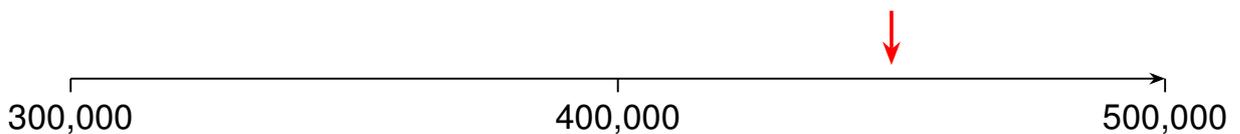Nice belt!

Section 2: Reasoning - Number Lines

Question 9: Mark the approximate position of 450,000 with an 'X' on the number line below.

0	250,000	500,000	750,000	1,000,000

Question 10: Mark the approximate position of 150,000 with a dot on the number line below.

0	200,000	400,000

Question 11: What number is approximately at the arrow on this number line?

300,000	400,000	500,000

Answer: _____

Question 12: Place these numbers on the number line: 620,000 and 880,000

500,000	750,000	1,000,000
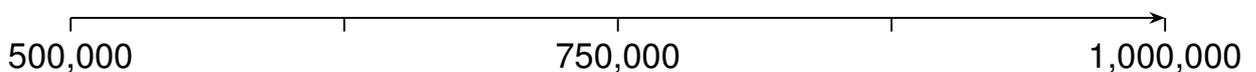
Question 13: Order these numbers from smallest to largest: 456,789 — 465,789 — 456,798 — 456,879

Answer: _____

Question 14: Which number is exactly halfway between 200,000 and 400,000?

Answer: _____

Number Line Koala Says:

"You're an Ordering Expert!"

Joke Time: Why did the student do multiplication problems on the floor?
The teacher told them not to use tables!

Section 3: Challenge - Real-World Ordering

Question 15: Here are the populations of 5 Australian cities (approximate):

- Sydney: 5,367,000

- Melbourne: 5,159,000

- Brisbane: 2,628,000

- Perth: 2,192,000

- Adelaide: 1,418,000

Order these cities from **smallest** population to **largest**.

Answer: _____

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Question 16: The distance from Earth to the Moon is approximately 384,400 km. The distance from Earth to Mars (at closest approach) is approximately 54,600,000 km. How many times further is Mars than the Moon? (Round to the nearest whole number)

Answer: _____

Question 17: Australia's area is approximately 7,692,000 square kilometres. Write this number in words.

Answer: _____

Question 18: A library has 847,652 books. Round this number to the nearest hundred thousand.

Answer: _____

Question 19: The Great Barrier Reef covers about 344,400 square kilometres. Write this in expanded notation.

Answer: _____

Question 20: Order from largest to smallest: 3,456,000 — 3,546,000 — 3,465,000 — 3,564,000

Answer: _____

Question 21: If a school has 1,247 students and each student reads an average of 15 books per year, approximately how many books are read in total? (Round to the nearest thousand)

Answer: _____

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Question 22: The population of a town increased from 456,890 to 523,120. What was the increase?
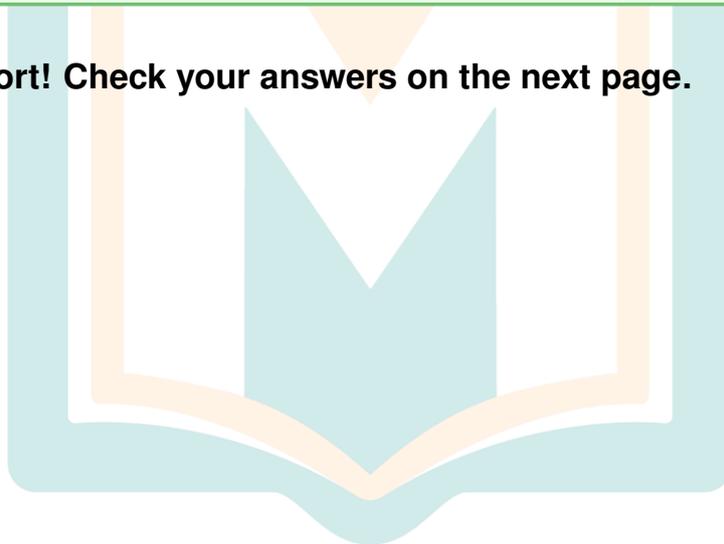
Answer: _____

> **Trophy Says:**
>
> **"You're a Real-World Number Hero!"**
>
> *Joke Time:* What's a math teacher's favourite place in New York?
> Times Square!

Fantastic effort! Check your answers on the next page.

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WORKSHEET 02
ANSWER KEY

Section 1: Fluency - Comparing Numbers

1. $234,567 < 234,576$
2. $890,123 = 890,123$
3. $1,456,000 > 1,446,000$
4. $723,981 < 732,981$
5. $505,050 > 500,505$
6. $2,000,000 > 1,999,999$
7. $678,432 > 678,423$
8. $345,670 > 345,067$

Section 2: Reasoning - Number Lines

9. X should be marked slightly before the 500,000 mark (approximately at position 7.2 on the 16cm line)
10. Dot should be marked at position 6 on the 16cm line
11. Approximately 475,000 (the arrow is at three-quarters of the way between 400,000 and 500,000)
12. 620,000 should be marked at approximately position 3.84 on the line; 880,000 at approximately position 12.16
13. 456,789, 456,798, 456,879, 465,789
14. 300,000

Section 3: Challenge - Real-World Ordering

15. Adelaide, Perth, Brisbane, Melbourne, Sydney
16. Approximately 142 times further
17. Seven million, six hundred and ninety-two thousand (square kilometres)
18. 800,000
19. 300,000 + 40,000 + 4,000 + 400
20. 3,564,000, 3,546,000, 3,465,000, 3,456,000
21. 19,000 books (calculation: 1,247 times 15 = 18,705, rounded to nearest thousand)
22. 66,230

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Well Done!

You've mastered Place Value & Big Numbers!
Keep up the excellent work in Year 5 Maths!

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