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FREE PRACTICE SHEET

Extra Maths Class

Free Extra Maths Class · Grade 5

Place value

Name: _____

Remember: Every digit's value depends on its place: in 352 418 the 5 is in the ten thousands place, so it is worth 50 000. **Why?** Each place is 10 times bigger than the place on its right. A 0 keeps a place open when there is nothing in it.

1 What is the value of the 7 in 274 615?

2 Write 46 208 in expanded notation.

3 Write as one number: 300 000 + 20 000 + 5 000 + 40 + 9

4 Which digit is in the hundreds place in 518 362?

5 Which number is in the place value table?

HTh	TTh	Th	H	T	U
4	0	7	3	5	1

6 Write <, > or =: 345 912 ___ 354 192

7 Write from smallest to biggest: 509 990; 590 099; 509 909; 590 909

8 What is 10 000 more than 295 300?

9 What is 1 000 less than 400 250?

10 Round 73 648 to the nearest 1 000.

11 Round 248 365 to the nearest 100.

12 Use the digits 3, 8, 0, 5, 1 and 6 once each. Write the **biggest** 6-digit number.

13 Now write the **smallest** 6-digit number with the same digits.

14 I am a 6-digit number. My hundred thousands digit is 4, my ten thousands digit is double that, my units digit is 7 and all my other digits are 0. What number am I?

15 A number rounded to the nearest 10 gives 52 470. What is the **smallest** whole number it could be?

I got _____ out of 15 ☆ ☆ ☆

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Free Extra Maths Class · Grade 5 · Memo

Memo: Place value

1. **70 000**
   The 7 is in the ten thousands place: 7 × 10 000 = 70 000

2. **40 000 + 6 000 + 200 + 8**
   One term for every digit that is not 0

3. **325 049**
   There are no hundreds, so a 0 goes in the hundreds place.

4. **3**
   5 HTh, 1 TTh, 8 Th, 3 H

5. **407 351**
   Read the digits from left to right: 4 hundred thousands, 0 ten thousands, 7 thousands, 3 hundreds, 5 tens, 1 unit

6. **345 912 < 354 192**
   The hundred thousands are equal; compare the ten thousands: 4 < 5

7. **509 909; 509 990; 590 099; 590 909**
   Compare digit by digit from the left: first the ten thousands (0 or 9), then the hundreds, then the tens

8. **305 300**
   The ten thousands become 9 + 1 = 10, so it carries to the hundred thousands: 305 300

9. **399 250**
   400 250 – 1 000 = 399 250 (borrow from the hundred thousands)

10. **74 000**
    Look at the hundreds: 6 is 5 or more, so round up

11. **248 400**
    Look at the tens: 6 is 5 or more, so round up

12. **865 310**
    Put the biggest digit first, then the next biggest ...

13. **103 568**
    A 6-digit number cannot start with 0, so start with 1 and then put down the 0

14. **480 007**
    4 HTh, 8 TTh, 0 Th, 0 H, 0 T, 7 U

15. **52 465**
    52 465 rounds up to 52 470, but 52 464 rounds down to 52 460