Rounding off and Powers

Significant Figures- The number of significant figures is just how many digits the number has at the front that is not zero.

Example. 238 have 3 significant figures, 300 have 1 sig fig, 3.5 has 2 sig figs.

Example. 238 in 2 sig figs can be written as 240. 3.21 in 1 sig fig can be written as 3.00

Exercise: 3

1. Write twenty-one and eighty-seven hundredths as a decimal number.

2. Round these off to nearest whole number.

a) 2.8 _____ b) 9.51 _____

3. Round these off to nearest hundred.

a) 365 _____ b) 1049 _____

4. Round these off to nearest thousand.

a) 2134 _____ b) 1556 _____

5. Write these numbers to 2 significant places.

a) 2599 _____ b) 1085 _____

c) 3.58 _____ d) 224.25_____

6. Round 47.53m to the nearest ten metres. _____

7. What is 44.9 rounded to the nearest whole number. _____

8. Anne buys a book for £3.99 and a folder for £1.99. Estimate how much she pays in total.

_____

9. Anita is painting her bedroom. The area of the wall is 29m squared, and each can of paint will cover an area of about 11m squared. Estimate how many cans of paint Anita will need to buy.

_____

10. Gary wants to estimate the answer for 689 x 69. He uses the approximation 700 x70. Will his approximation be higher or lower than the actual answer?

_____

11. Estimate the product. Round each factor to the nearest whole number, and then multiply 4.3×7.3
The product is approximately _____

18. Which can be described as 'two to the power of five'? _____

19. Write first five even square numbers?

_____

20.Write first five cube numbers?

_____

21. Use your calculator to find the value of 3^9. _____

22. What is the square root of 36? _____

23. What is the cube root of 64? _____

24. $2^5 \times 2^2$ is the same as _____

25. 2^8 divided by 2^4 is the same as _____

26. Which of the following has the largest value?

3^3, 5^2, 2^4

_____

27. Solve for *b*. $b = 4^3$

_____

28. Evaluate the followings.

a) $^{-}4^2$ = _____ b) $^{-}7^2$ = _____ c) $(^{-}5)^2$ = _____

29. What is $\sqrt{81}$?

_____

30. Which sign makes the sentence true(<, > , or =)?

3×10^3 3.0×10^3