

Place Value: Hard Practice Paper 3

Q1. When 0.03 is divided by 1000, what is the value of the 3 in the new number?

- A. 3 millionths
- B. 3 hundred-thousandths
- C. 3 ten-thousandths
- D. 3 thousandths
- E. 3 hundredths

Q2. What is the sum of the values of the digit 6 in the numbers 4.61 and 0.062, multiplied by 10?

- A. 6.6
- B. 6.06
- C. 66
- D. 0.66
- E. 660

Q3. A number is rounded to the nearest integer as 45. Rounded to 1 decimal place it is 45.0. Which of the following CANNOT be the original number?

- A. 44.95
- B. 45.04
- C. 45.01
- D. 44.98
- E. 44.94

Q4. Order from smallest to largest: $\frac{3}{8}$, 0.38, 0.308, $\frac{3}{10}$. What is the third number in the ordered list?

- A. $\frac{3}{8}$
- B. 0.38
- C. 0.308
- D. $\frac{3}{10}$
- E. None of these

Q5. What is the largest 3-digit number that leaves a remainder of 1 when divided by 10, and rounding it to the nearest hundred gives 500?

- A. 501
- B. 491
- C. 541
- D. 549
- E. 531

Q6. Calculate: 4,000,000 divided by 8,000.

- A. 500 B. 50 C. 5000 D. 0.5 E. 5

Q7. A five-digit number consists of consecutive digits in descending order. The sum of the digits is 30. What is the value of the tens digit?

- A. 50 B. 60 C. 40 D. 70 E. 30

Q8. Find the missing number in the equation: $0.45 \times [?] = 45000$

- A. 100 B. 1000 C. 10000 D. 100000 E. 1000000

Q9. Which of these expressions represents the smallest overall value?

- A. 12 tenths
B. 105 hundredths
C. 1100 thousandths
D. 1.1 units
E. 1 unit and 1 tenth

Q10. The speed of light is roughly 299,792,458 m/s. What is this value rounded to the nearest million?

- A. 299,000,000
B. 300,000,000
C. 299,800,000
D. 300,792,000
E. 290,000,000

Q11. Which of the following is exactly midway between 0.08 and 0.008?

- A. 0.044 B. 0.04 C. 0.088 D. 0.084 E. 0.44

Q12. If you multiply a number by 100 and then divide the result by 10000, what happens to the digits' positions overall?

- A. 2 places to the right
- B. 2 places to the left
- C. 4 places to the left
- D. 3 places to the left
- E. 6 places to the left

Q13. In a 7-digit number, the millions digit is 5. If you multiply the number by 10, to what place value does the 5 move?

- A. Hundred thousands
- B. Ten millions
- C. Millions
- D. Hundred millions
- E. Billions

Q14. How many times does the digit 9 appear in all the whole numbers from 1 to 100?

- A. 10
- B. 11
- C. 19
- D. 20
- E. 21

Q15. What is the mathematical difference between the value of the 3 in 5.31 and the value of the 3 in 4.03?

- A. 0.27
- B. 2.7
- C. 0.33
- D. 0.3
- E. 27