QUESTIONS

NUMBERS AND PLACE VALUE

Questions related to Chapter 6 in *Mathematics Explained for Primary Teachers*, 7th edition.

Questions 6.01–20: Checking understanding (numbers and place value)

Question 6.01 is about a basic skill in learning to count

Q6.01:   Write down at a glance, without counting, how many x's there are below. What is this skill called?

     x x x x x x

In each of **Questions 6.02–05**, match the set with one of these: natural numbers, integers, rational numbers, real numbers.

Q6.02:   The set of all numbers that can be represented by points on a continuous number line or by real lengths, including numbers like $\sqrt{2}$.

Q6.03:   {1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, …} continuing forever.

Q6.04:   The set of all numbers – including fractions and decimals – that can be expressed as the ratio of two whole numbers.

Q6.05:   {…, −5, −4, −3, −2, −1, 0, 1, 2, 3, 4, 5, …} continuing forever in both directions.

In each **of Questions 6.06–08**, write the numbers using place value notation; then read your answer out loud, using the correct terminology for these numbers.

Q6.06: $(4 \times 10^4) + (2 \times 10^3) + (7 \times 10) + 6$

Q6.07: $3 + (5 \times 10) + (6 \times 10^2) + (7 \times 10^6)$

Q6.08: 5×10^7