

GCSE Maths: Place value and ordering numbers (Higher): answers

GCSE Maths - Number Basics - Higher - Lesson 1.1

Answers. Final answers to the worksheet questions. Full step-by-step solutions for every question are free at websink.site/gcse/maths/ch01-number-basics/higher/place-value-and-ordering-numbers/

Exercise 1A Place value and ordering Non-calculator

1 Write down the value of the underlined digit.

(a) 5324

Answer: 300

(b) 706 135

Answer: 700 000

(c) 1.86

Answer: 0.8

(d) 12.047

Answer: 0.007

(e) 9 052 310

Answer: 2000

(f) 0.03

Answer: 0

2 Write each number in words.

(a) 6 204

Answer: six thousand two hundred and four

(b) 58 030

Answer: fifty-eight thousand and thirty

(c) 2 100 500

Answer: two million one hundred thousand five hundred

(d) 4.07

Answer: four point zero seven

3 Write each of these as a number using digits.

(a) nine thousand and fifteen

Answer: 9015

(b) forty thousand and six

Answer: 40 006

- (c) three hundred and eighty thousand two hundred and fifty

Answer: 380 250

- (d) two million seven thousand

Answer: 2 007 000

4 Put the correct symbol, < or > or =, between each pair of numbers.

- (a) 3.07 ? 3.7

Answer: <

- (b) 0.8 ? 0.8

Answer: =

- (c) 12.5 ? 12.45

Answer: >

- (d) 4509 ? 4590

Answer: <

- (e) 6.05 ? 6.005

Answer: >

- (f) 0.31 ? 0.299

Answer: >

5 Write each list of numbers in order, starting with the smallest.

- (a) 4065, 4506, 4056, 4650

Answer: 4056, 4065, 4506, 4650

- (b) 0.6, 0.06, 0.65, 0.605

Answer: 0.06, 0.6, 0.605, 0.65

- (c) 3.4, 3.04, 3.44, 3.404, 3.044

Answer: 3.04, 3.044, 3.4, 3.404, 3.44

6 Work out each answer by moving the digits.

- (a) 6.4×10

Answer: 64

- (b) 0.35×100

Answer: 35

- (c) $2900 \div 100$

Answer: 29

- (d) $45.6 \div 10$

Answer: 4.56

(e) 0.072×1000

Answer: 72

(f) $83 \div 1000$

Answer: 0.083

7 Write **true** or **false** for each statement. Give a reason.

(a) $0.5 > 0.45$

Answer: True

(b) $7 \geq 7$

Answer: True

(c) $0.30 \neq 0.3$

Answer: False

(d) $1000 < 999$

Answer: False

8 Use all of the digits 6, 3, 9 and 1 once each to make a four-digit number.

(a) the largest possible number

Answer: 9631

(b) the smallest possible number

Answer: 1369

(c) the largest possible **even** number

Answer: 9316

9 The crowds at four football matches were 45 302, 45 032, 44 999 and 45 230. Write the crowds in order, with the biggest crowd first.

Answer: 45 302, 45 230, 45 032, 44 999

10 Kasim says, "0.35 is bigger than 0.4 because 35 is bigger than 4." Is Kasim right? Give a reason.

Answer: No. 0.4 is bigger than 0.35

11 List all the whole numbers n such that $12 < n \leq 17$.

Answer: 13, 14, 15, 16, 17

12 Write down a decimal that is bigger than 0.31 and smaller than 0.32.

Answer: 0.315 (any decimal between 0.31 and 0.32)

13 Write these numbers in order, smallest first: $\frac{3}{5}$, 0.55, $\frac{5}{8}$, 0.6

Answer: 0.55, $\frac{3}{5}$, 0.6, $\frac{5}{8}$

14 Is each statement **always true**, **sometimes true** or **never true**? Give an example.

- (a) A whole number with more digits is bigger than a whole number with fewer digits.

Answer: Always true

- (b) A decimal with more digits is bigger than a decimal with fewer digits.

Answer: Sometimes true

- (c) Multiplying a number by 10 always makes the number bigger.

Answer: Sometimes true