Place Value and Ordering

GCSE Mathematics • **Foundation Tier** • Grades 1–2 • Non-calculator

WORKED SOLUTIONS

Name: worked example Class: _____ Total: 33 / 33

Show all your working. Marks are given for correct method as well as the final answer.

1. Write down the value of the 7 in 4 728. **[1 mark]**

4728: thousands, HUNDREDS, tens, units
the 7 is in the hundreds column

Answer: 700

2. Write down the value of the 3 in 12.53. **[1 mark]**

after the point: tenths, HUNDREDTHS
0.03, not 3

Answer: 3 hundredths (0.03)

3. Write 60 409 in words. **[1 mark]**

60 000 + 400 + 9
the zero holds the tens column

Answer: sixty thousand four hundred and nine

4. Write *four thousand and thirty* in figures. **[1 mark]**

4 thousands, 0 hundreds, 3 tens, 0 units

Answer: 4030

5. Write these in order, smallest first: 407, 47, 470, 74. **[2 marks]**

count the digits first: 47 and 74 are 2-digit
$47 < 74 < 407 < 470$

Answer: 47, 74, 407, 470

6. Write these in order, smallest first: 0.7, 0.07, 0.77, 0.707. **[2 marks]**

line up the decimal points
0.070 0.700 0.770 0.707
more digits does NOT mean bigger

Answer: 0.07, 0.7, 0.707, 0.77

7. Work out 3.8×100. **[1 mark]**

$\times 100$ moves the digits 2 places LEFT

Answer: 380

8. Work out $47 \div 1000$. **[1 mark]**

$\div 1000$ moves the digits 3 places RIGHT
fill the gaps with zeros

Answer: 0.047

9. Work out 0.06×1000. **[2 marks]**

3 places left: $0.06 \to 0.6 \to 6 \to 60$

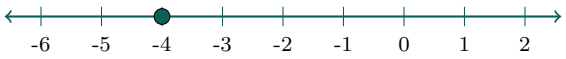
Answer: 60

10. Write down the number that is 10 less than 2 003. **[1 mark]**

2003 − 10
the hundreds and thousands both drop

Answer: 1993

11. Write down the temperature shown by the arrow. **[1 mark]**



count back from 0

Answer: −4°C

12. Write these temperatures in order, coldest first: 3°C, −5°C, 0°C, −2°C. **[2 marks]**

on a number line the MOST negative is furthest left
−5 is colder than −2

Answer: −5, −2, 0, 3

13. The temperature is −3°C. It rises by 8°C. Work out the new temperature. **[2 marks]**

−3 + 8
count 8 to the RIGHT from −3
= 5

Answer: 5°C

14. Work out the difference between −7 and 4. **[2 marks]**

from −7 up to 0 is 7
from 0 up to 4 is 4
7 + 4 = 11

Answer: 11

15. Which is larger, $\frac{3}{5}$ or 0.6? Explain. **[2 marks]**

$\frac{3}{5}$ = 3 ÷ 5 = 0.6
they are the same

Answer: equal

16. Write down a number between 0.4 and 0.5. **[1 mark]**

0.45 sits halfway
add another decimal place

Answer: 0.45 (any valid answer)

17. Use < or >: −8 □ −3. **[1 mark]**

−8 is further LEFT on the number line

Answer: −8 < −3

18. Work out 5 000 − 2 460. **[2 marks]**

5000 − 2000 = 3000
3000 − 460 = 2540

Answer: 2540

19. A shop has 1 250 bottles. It sells 10 crates of 24.

(a) Work out how many bottles were sold. **[2 marks]**

10×24

$= 240$

(b) Work out how many are left. **[2 marks]**

$1250 - 240$

$= 1010$

Answer: 240 sold ; 1010 left

20. A number has 4 in the tens column, 9 in the units and 2 in the hundreds.

(a) Write down the number. **[1 mark]**

hundreds 2, tens 4, units 9

$= 249$

(b) Multiply it by 100. **[2 marks]**

249×100

2 places left

$= 24\,900$

Answer: 249 ; 24 900

Free to print and use at home or in class. Please do not re-host or sell. Written by Hampstead Tuition Centre from the published exam specifications.