

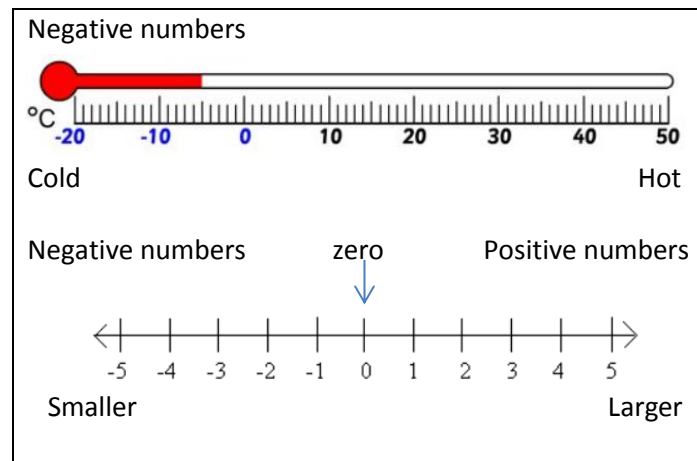
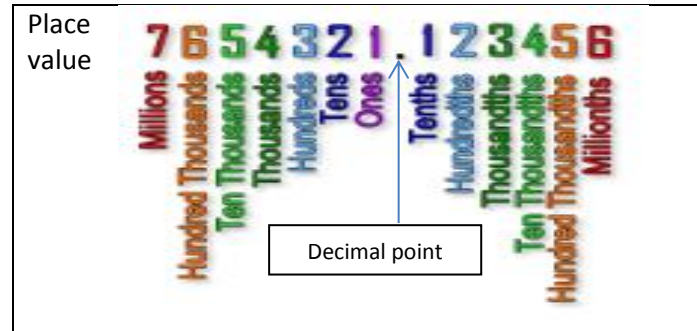
**Key Vocabulary**

|   |   |
|---|---|
| Multiple<br>Multiples of 8: 8, 16, 24...    | The times table of the number   |
| Factor<br>Factors of 8: 1, 2, 4, 8          | Divides exactly into the given number   |
| Prime Number                                | Has exactly two different factors   |
| Common multiple                             | Multiple common to two given numbers  |
| Common factor                               | Factor common to two given numbers  |
| Place value<br>582 is made up of 500, 80, 2 | Place value is the value of each digit in a number  |
| Multiply<br>By 10, 100, 1000                | Digits move one place value to the left for x10 (two place values for x100 and three place values for x1000)  |
| Divide<br>By 10, 100, 1000                  | Digits move one place value to the right for ÷10 (two place values for ÷100 and three place values for ÷1000) |

**Key facts / Diagrams**

Prime numbers up to 50:

|    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |



**Common misconceptions**

- 1 is not a prime number
- Some students think that -20 is larger than 8, BUT -20 is the smaller number here as it is further left on the number line than 8.

**Worked examples**

- Choose 3 numbers from the below that are common factors of 72 and 48.  

**2, 9, 5, 8, 6**

Factors of 72: 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72  
 Factors of 48: 1, 2, 3, 4, 6, 8, 12, 16, 24, 48  
 Answer: 2, 6, 8
- Write the number 45680 in words  
 Forty five thousand six hundred and eighty
- Write the number two million five thousand and seven in digits  

2005007
- Find the value of  $\Delta$ 

|                               |                 |
|-------------------------------|-----------------|
| a) $0.68 \times 100 = \Delta$ | $\Delta = 68$   |
| b) $\Delta \times 10 = 3.5$   | $\Delta = 0.35$ |
| c) $95 \div 100 = \Delta$     | $\Delta = 0.95$ |