

# Numeracy (Non-Calculator)

## Exercise 1-Write each number out in words

- |               |               |               |
|---------------|---------------|---------------|
| 1. 7 002      | 2. 10 089     | 3. 2 020      |
| 4. 116 098    | 5. 102 000    | 6. 567 080    |
| 7. 505 011    | 8. 870 320    | 9. 200 090    |
| 10. 3 800 967 | 11. 2 000 750 | 12. 1 170 000 |

## Exercise 2- Write each number in figures

- |   |                                      |
|---|--------------------------------------|
| 1. seven thousand and sixty                               | 2. fifty thousand and twenty-one     |
| 3. two hundred and six thousand three hundred and sixteen | 4. one million twenty five thousand  |
| 5. four million and sixteen                               | 6. two million four thousand and one |

## Exercise 3- Write down the answer to each

- |                  |                   |                  |                   |                  |
|------------------|-------------------|------------------|-------------------|------------------|
| 1. $320 + 140$   | 2. $230 + 90$     | 3. $550 - 140$   | 4. $810 - 260$    | 5. $670 - 180$   |
| 6. $34 + 58$     | 7. $87 + 25$      | 8. $88 + 69$     | 9. $67 - 48$      | 10. $101 - 78$   |
| 11. $8 \times 9$ | 12. $7 \times 12$ | 13. $6 \times 7$ | 14. $8 \times 8$  | 15. $7 \times 9$ |
| 16. $4 \times 8$ | 17. $6 \times 9$  | 18. $7 \times 8$ | 19. $9 \times 12$ | 20. $7 \times 3$ |



## Exercise 4- Write down the answer to each

- |                    |                     |                     |                      |                     |
|--------------------|---------------------|---------------------|----------------------|---------------------|
| 1. $45 \times 100$ | 2. $86 \times 1000$ | 3. $702 \times 100$ | 4. $904 \times 1000$ | 5. $630 \times 100$ |
| 6. $40 \times 7$   | 7. $80 \times 90$   | 8. $900 \times 7$   | 9. $45 \times 20$    | 10. $250 \times 30$ |

## Exercise 5- Double each of the following

- |         |        |        |        |         |
|---------|--------|--------|--------|---------|
| 1. 54   | 2. 86  | 3. 340 | 4. 809 | 5. 330  |
| 6. 7200 | 7. 105 | 8. 760 | 9. 911 | 10. 782 |

## Exercise 6- Write down the answer when 1 020 is added to each of the following

- |            |            |            |           |             |
|------------|------------|------------|-----------|-------------|
| 1. 479     | 2. 8 550   | 3. 10 777  | 4. 19 000 | 5. 304 186  |
| 6. 119 320 | 7. 300 745 | 8. 650 680 | 9. 339 98 | 10. 723 880 |



## Exercise 7- Write down the answer when 2 100 is subtracted from each of the following

- |            |            |            |            |             |
|------------|------------|------------|------------|-------------|
| 1. 6 177   | 2. 22 850  | 3. 65 160  | 4. 78 000  | 5. 87 030   |
| 6. 211 700 | 7. 140 800 | 8. 399 000 | 9. 101 000 | 10. 160 099 |

## Exercise 8- Write down how much has been added to each number to get the next

- |                    |                     |                     |                     |
|--------------------|---------------------|---------------------|---------------------|
| 1. 4 567 to 4 667  | 2. 4 667 to 6 767   | 3. 6 767 to 9 770   | 4. 9 770 to 9 800   |
| 5. 9 800 to 10 002 | 6. 10 002 to 10 100 | 7. 10 100 to 11 000 | 8. 11 000 to 20 200 |

## Exercise 9- Write down how much has been subtract from each number to get the next

- |                       |                       |                       |                       |
|-----------------------|-----------------------|-----------------------|-----------------------|
| 1. 303 000 to 300 000 | 2. 300 000 to 299 900 | 3. 299 900 to 297 700 | 4. 297 700 to 297 650 |
| 5. 297 650 to 270 650 | 6. 270 650 to 250 630 | 7. 250 630 to 190 610 | 8. 190 610 to 188 608 |

## Exercise 10- Write out these sums and calculate

- |                   |                      |                    |                       |                         |
|-------------------|----------------------|--------------------|-----------------------|-------------------------|
| 1. $3\,246 + 815$ | 2. $4\,089 + 6\,745$ | 3. $45\,768 + 267$ | 4. $34\,098 + 8\,976$ | 5. $34\,768 + 78\,677$  |
| 6. $3\,246 - 815$ | 7. $6\,089 - 4\,745$ | 8. $45\,768 - 269$ | 9. $34\,098 - 8\,976$ | 10. $78\,677 - 34\,768$ |

**Exercise 11-Calculate**

- |                      |                       |                       |                               |                                |
|----------------------|-----------------------|-----------------------|-------------------------------|--------------------------------|
| 1. $8 \times 8$      | 2. $7 \times 12$      | 3. $8 \times 9$       | 4. $6 \times 7$               | 5. $8 \times 12$               |
| 6. $40 \times 6$     | 7. $7 \times 700$     | 8. $40 \times 90$     | 9. $800 \times 11$            | 10. $90 \times 900$            |
| 11. $4 + 3 \times 7$ | 12. $17 - 3 \times 5$ | 13. $33 - 8 \times 4$ | 14. $5 \times 6 + 3 \times 9$ | 15. $12 \times 6 - 4 \times 9$ |

**Exercise 12-Write out these sums and calculate**

- |                   |                   |                   |                   |                    |
|-------------------|-------------------|-------------------|-------------------|--------------------|
| 1. $23 \times 6$  | 2. $56 \times 7$  | 3. $560 \times 4$ | 4. $783 \times 5$ | 5. $864 \times 8$  |
| 6. $537 \times 9$ | 7. $245 \times 8$ | 8. $913 \times 7$ | 9. $349 \times 6$ | 10. $548 \times 9$ |

**Exercise 13-Write down the first 7 multiples of:**

- |      |      |      |       |       |
|------|------|------|-------|-------|
| 1. 6 | 2. 7 | 3. 9 | 4. 12 | 5. 25 |
|------|------|------|-------|-------|

**Exercise 14-Write down all the factor pairs of:**

- |       |       |       |       |        |
|-------|-------|-------|-------|--------|
| 1. 18 | 2. 32 | 3. 36 | 4. 54 | 5. 100 |
|-------|-------|-------|-------|--------|

**Exercise 15-Write down half of each number**

- |        |        |        |         |         |
|--------|--------|--------|---------|---------|
| 1. 260 | 2. 670 | 3. 172 | 4. 3056 | 5. 2312 |
|--------|--------|--------|---------|---------|

**Exercise 16-Calculate**

- |                  |                   |                    |                    |                     |
|------------------|-------------------|--------------------|--------------------|---------------------|
| 1. $24 \div 4$   | 2. $72 \div 9$    | 3. $60 \div 12$    | 4. $56 \div 8$     | 5. $121 \div 11$    |
| 6. $420 \div 10$ | 7. $3600 \div 6$  | 8. $420 \div 7$    | 9. $305 \div 5$    | 10. $6050 \div 10$  |
| 11. $30 \div 15$ | 12. $300 \div 15$ | 13. $300 \div 150$ | 14. $3000 \div 15$ | 15. $3000 \div 150$ |

**Exercise 17- Write down a sum and calculate**

- |                  |                  |                  |                  |                    |
|------------------|------------------|------------------|------------------|--------------------|
| 1. $78 \div 3$   | 2. $819 \div 3$  | 3. $306 \div 6$  | 4. $483 \div 7$  | 5. $4552 \div 8$   |
| 6. $3800 \div 4$ | 7. $1648 \div 8$ | 8. $6480 \div 9$ | 9. $4466 \div 7$ | 10. $85509 \div 9$ |

**Exercise 18- Calculate**

- |                        |                          |                         |                          |                          |
|------------------------|--------------------------|-------------------------|--------------------------|--------------------------|
| 1. $\frac{1}{3}$ of 27 | 2. $\frac{1}{4}$ of 60   | 3. $\frac{1}{5}$ of 75  | 4. $\frac{1}{6}$ of 600  | 5. $\frac{1}{7}$ of 420  |
| 6. $\frac{1}{8}$ of 96 | 7. $\frac{1}{9}$ of 1800 | 8. $\frac{1}{6}$ of 306 | 9. $\frac{1}{7}$ of 1421 | 10. $\frac{1}{12}$ of 96 |

**Exercise 19-Calculate**

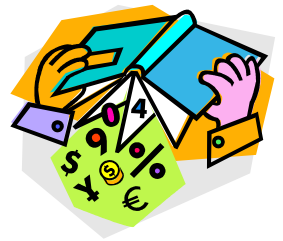
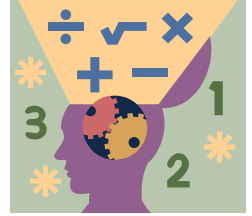
- |                        |                         |                        |                         |                          |
|------------------------|-------------------------|------------------------|-------------------------|--------------------------|
| 1. $\frac{2}{3}$ of 18 | 2. $\frac{3}{7}$ of 14  | 3. $\frac{5}{8}$ of 24 | 4. $\frac{2}{5}$ of 100 | 5. $\frac{3}{8}$ of 32   |
| 6. $\frac{2}{9}$ of 36 | 7. $\frac{2}{11}$ of 33 | 8. $\frac{5}{6}$ of 42 | 9. $\frac{2}{3}$ of 150 | 10. $\frac{2}{7}$ of 700 |

**Exercise 20-Calculate**

- |  |  |                                |                                |  |
|--|--|--------------------------------|--------------------------------|--|
| 1. $\frac{2}{5} + \frac{1}{5}$               | 2. $\frac{3}{7} + \frac{1}{7}$               | 3. $\frac{1}{9} + \frac{7}{9}$ | 4. $\frac{2}{6} - \frac{1}{6}$ | 5. $\frac{2}{3} - \frac{1}{3}$                   |
| 6. $\frac{5}{7} - \frac{2}{7} + \frac{1}{7}$ | 7. $\frac{4}{5} - \frac{3}{5} + \frac{1}{5}$ | 8. $\frac{1}{4} - \frac{1}{4}$ | 9. $\frac{3}{5} + \frac{2}{5}$ | 10. $\frac{3}{11} + \frac{2}{11} - \frac{4}{11}$ |

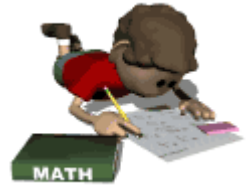
**Exercise 21-Simplify the fractions**

- |                    |                     |                      |                     |                      |
|--------------------|---------------------|----------------------|---------------------|----------------------|
| 1. $\frac{6}{8}$   | 2. $\frac{20}{30}$  | 3. $\frac{15}{20}$   | 4. $\frac{9}{12}$   | 5. $\frac{8}{16}$    |
| 6. $\frac{30}{35}$ | 7. $\frac{7}{21}$   | 8. $\frac{80}{90}$   | 9. $\frac{45}{55}$  | 10. $\frac{30}{100}$ |
| 11. $\frac{5}{10}$ | 12. $\frac{33}{99}$ | 13. $\frac{25}{100}$ | 14. $\frac{14}{28}$ | 15. $\frac{8}{28}$   |



**Exercise 22- Write each number as a number of wholes and a fraction**

- |         |        |        |        |          |
|---------|--------|--------|--------|----------|
| 1. 1.5  | 2. 2.7 | 3. 0.8 | 4. 7.1 | 5. 0.9   |
| 6. 11.7 | 7. 5.5 | 8. 0.1 | 9. 6.0 | 10. 10.0 |



**Exercise 23- Write down the next number in each sequence**

- |                    |                   |                  |                    |                    |
|--------------------|-------------------|------------------|--------------------|--------------------|
| 1.1, 1.3, 1.5....  | 2.3, 2.6, 2.9...  | 4.5, 5.0, 5.5... | 3.6, 4.0, 4.4....  | 7.9, 8.1, 8.3....  |
| 0.3, 0.8, 1.3..... | 5.1, 4.8, 4.5.... | 5.4, 4.7, 4..... | 1.9, 1.4, 0.9..... | 3.4, 2.4, 1.4..... |

**Exercise 24- Write down the answer to each of the following**

- |                |                 |                  |                |                  |
|----------------|-----------------|------------------|----------------|------------------|
| 1. $7.2 + 5.7$ | 2. $8.7 + 6.6$  | 3. $7.6 - 5.5$   | 4. $7.5 - 4.6$ | 5. $6.7 - 6.3$   |
| 6. $8 - 5.6$   | 7. $10.6 + 3.9$ | 8. $23.7 - 15.4$ | 9. $30 - 24.8$ | 10. $16.3 - 9.8$ |

**Exercise 25- Round each number to the nearest ten**

- |           |            |         |          |           |
|-----------|------------|---------|----------|-----------|
| 1. 63     | 2. 194     | 3. 4275 | 4. 49.7  | 5. 7.8    |
| 6. 67 887 | 7. 213 674 | 8. 36.9 | 9. 140.3 | 10. 299.9 |

**Exercise 26- Round each number to the nearest hundred**

- |          |           |           |           |           |
|----------|-----------|-----------|-----------|-----------|
| 1. 612   | 2. 1 455  | 3. 7 695  | 4. 18 987 | 5. 67.9   |
| 6. 2 111 | 7. 18 695 | 8. 10 018 | 9. 39 956 | 10. 891.1 |



**Exercise 27- Round each number to the nearest whole number**

- |         |           |           |           |            |
|---------|-----------|-----------|-----------|------------|
| 1. 61.2 | 2. 145.5  | 3. 769.5  | 4. 198.71 | 5. 67.922  |
| 6. 2.11 | 7. 18.695 | 8. 10.018 | 9. 399.56 | 10. 602.97 |

**Exercise 28- Round each number to one decimal place**

- |          |          |           |           |            |
|----------|----------|-----------|-----------|------------|
| 1. 6.12  | 2. 14.55 | 3. 76.95  | 4. 1.8987 | 5. 0.79    |
| 6. 2.011 | 7. 8.695 | 8. 10.018 | 9. 39.956 | 10. 10.891 |

**Exercise 29- Use rounding to estimate each answer**

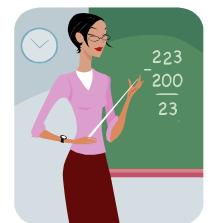
- |                      |                      |                        |                        |                      |
|----------------------|----------------------|------------------------|------------------------|----------------------|
| 1. $63 \times 4$     | 2. $95 \times 8$     | 3. $72 \times 11$      | 4. $18 \times 19$      | 5. $47 \times 21$    |
| 6. $8\,212 + 7\,984$ | 7. $2\,679 + 4\,122$ | 8. $10\,018 + 19\,972$ | 9. $39\,956 + 41\,870$ | 10. $89.11 + 43.9$   |
| 11. $69.6 - 41.8$    | 12. $59.34 - 18.8$   | 13. $3\,767 - 1\,904$  | 14. $15 - 8.99$        | 15. $285 - 199.99$   |
| 16. $33 \div 4$      | 17. $398 \div 10$    | 18. $62.99 \div 9.98$  | 19. $25 \div 3.99$     | 20. $3\,764 \div 98$ |

**Exercise 30- Write each percentage as a fraction in its simplest form**

- |         |        |        |        |         |
|---------|--------|--------|--------|---------|
| 1. 13 % | 2. 29% | 3. 1%  | 4. 50% | 5. 35%  |
| 6. 16%  | 7. 8%  | 8. 10% | 9. 25% | 10. 60% |

**Exercise 31- Write down the equivalent percentage to each fraction**

- |           |           |          |          |            |
|-----------|-----------|----------|----------|------------|
| 1. $1/10$ | 2. $1/2$  | 3. $1/4$ | 4. $1/3$ | 5. $1/100$ |
| 6. $2/3$  | 7. $3/10$ | 8. $1/5$ | 9. $4/5$ | 10. $1/20$ |



**Exercise 32- Calculate**

- |                    |                   |                    |                |                                |
|--------------------|-------------------|--------------------|----------------|--------------------------------|
| 1. 50% of £34      | 2. 25% of £64     | 3. 10% of £120     | 4. 1% of £300  | 5. 1% of £ 3 000               |
| 6. 50% of £13      | 7. 25% of £38     | 8. 10% of £ 39     | 9. 1% of £234  | 10. $33\frac{1}{3}\%$ of £ 36  |
| 11. 25% of £ 12.60 | 12. 25% of £13.80 | 13. 10% of £ 15.10 | 14. 1% of £ 11 | 15. $33\frac{1}{3}\%$ of £9.90 |

**Exercise 33- Calculate**

- |                  |                    |                               |                              |                              |
|------------------|--------------------|-------------------------------|------------------------------|------------------------------|
| 1. 20% of £50    | 2. 30% of £60      | 3. 70% of £120                | 4. 5% of £300                | 5. 5% of £42                 |
| 6. 15% of £20    | 7. 15% of £90      | 8. 15% of £ 18                | 9. 15% of £32                | 10. 15% of £ 126             |
| 11. 25% of £ 64  | 12. 75% of £64     | 13. $33\frac{1}{3}\%$ of £ 39 | 14. $66\frac{2}{3}\%$ of £39 | 15. $66\frac{2}{3}\%$ of £90 |
| 16. 15% of £3.40 | 17. 15% of £ 80.40 | 18. 15% of £210               | 19. 35% of £ 80              | 20. 45% of £ 20              |

**Exercise 34- Find the percentage of wrong answers in a test if the percentage of correct answers is**

- |        |        |        |         |         |
|--------|--------|--------|---------|---------|
| 1. 10% | 2. 45% | 3. 72% | 4. 97%  | 5. 4%   |
| 6. 0%  | 7. 67% | 8. 83% | 9. 100% | 10. 99% |

**Exercise 35- Arrange these numbers in order from smallest to largest**

- |                          |                            |
|--------------------------|----------------------------|
| 1. -5, -7, 6, 0, -4      | 2. 18, -9, 9, 0, -14       |
| 3. 34, -34, 28, -28, -27 | 4. -43, -47, -41, -39, -50 |

**Exercise 36- Write down the number exactly in the middle**

- |             |             |              |             |               |
|-------------|-------------|--------------|-------------|---------------|
| 1. 6 and -6 | 2. 0 and -6 | 3. 4 and -12 | 4. 1 and -7 | 5. -5 and -11 |
|-------------|-------------|--------------|-------------|---------------|

**Exercise 37- Write down the next number in these sequences**

- |                    |                   |                    |                     |                     |
|--------------------|-------------------|--------------------|---------------------|---------------------|
| 1. 5, 3, 1, -1.... | 2. 0, -5, -10.... | 3. -14, -11, -8... | 4. -21, -25, -29... | 5. -67, -57, -47... |
|--------------------|-------------------|--------------------|---------------------|---------------------|

