We must do some calculations without a calculator.

Have a go at your best skill first. Most people are best at adding but you choose.

These exercises get harder as they go through.

## **Adding**

1. 73 + 26 + 101
2. 184 + 121
3. 76 + 99 +134
4. 1062 +241 +398
5. £10.99 + £3.64 + £12.98
6. 2 million + 6 million + ½ million
7. 7300000 + 62000 + 84120
8. £99 + £52.99 + £37.50
9. £74.28 + £64.89 +£23.56

# Subtracting

1. 100 – 68
2. 104 – 68
3. 99 – 68
4. 138 – 42
5. £5.00 - £3.28
6. 1000 – 5
7. 6728 – 251
8. 1 million – 50
9. 1296 – 947

## **Multiplying**

1. 72 × 2
2. 150 × 3
3. 76 × 5
4. 83 × 5
5. 25 × 13
6. 74 × 21
7. 214 doubled
8. 299 tripled
9. 173 × 256

# Dividing

1. 100 ÷ 4
2. 76 ÷ 2
3. 99 ÷ 3
4. 260 ÷ 20
5. 234 ÷ 9

(Hint: 10 × 9 = 90, 20 × 9 = 180)

1. 65 ÷ 13

(Hint: Try adding up 13’s until you get to 65)

1. 32 ÷ 4
2. 196 ÷ 7
3. 1152 ÷ 12

 ***Do******not*** *use a calculator to do these questions and remember to show your working out.*

 1. 3.7 + 0.62

 2. 8.45 - 2.7

 3. 11.3 - 2.14

 4. 17 + 3.24

 5. 12 - 1.8

 6. 0.034 × 1000

 7. 62.1 ÷ 100

 8. 11.4 - 3.16

 9. 34.1 × 1000

 10. 0.41 ÷ 100

 11 52.6 × 10

 12. 0.365 - 0.08

 13. 2.32956 ÷ 100

 14. 654 × 1000

 15. 0.7 × 200

 16. 54 ÷ 100

 17. 27 × 100

 18. 58.4 ÷ 10000

1. 0.742 × 1 million
2. 4864 ÷ 19
3. 345 × 239
4. 25662 ÷ 26
5. –4 - - 5
6. –6 - + 4
7. –7 - + 8
8. 4 + - 5
9. +6 + + 7
10. +9- + 4
11. 8 - - 16
12. 26 - + 9 - - 9

1. At 9 a.m. the temperature was 14°. At noon it had risen 5°. What was the temperature at noon?

2.Clara started the day with £20. She spent £4 on lunch and then bought a top for £3.99. How much did she have left?

3. A signpost gives 15 miles to the next town. What will be the distance left after travelling 7 miles?

4.A brick weighs 2lbs each. How much do 11 bricks weigh?

5. A relay race has 4 runners. If the total distance of the race is 600m how far does each runner have to go?

6. You have two water jugs, one holds 5 pints and the other holds 3 pints. How can you use them to pour quantities of :

a) 9 pints b) 11 pints c) 17 pints

7. Jane has 83p to spend on chocolate bars costing 12p each. How many can she buy and what change will she have left?

8. 30 marbles are to be shared equally between 4 children. How many does each child get and how many are left over?

9. If we changed our calendar to be decimalised so that each week is 10 days long. How many weeks would there be in the year? (Not a leap year)

10. You have 17p and 22p stamps. How can you use them to make the following amounts:

a) 56p b) 61p c)78p

1. Write in words the number 100 101

2. Write with digits the number five and a half thousand.

3. Write with digits the number three and three quarters of a million.

4. Six cheques have reference numbers:

 374214 735102 542372 539999 390002 642137

 Rewrite these numbers in numerical order, starting with the smallest.

5. Six distances have been recorded:

 3.451km, 3.506km, 3.9km, 3.008km, 3.671km, 3.91km

 Rewrite these distances in numerical order, starting with the largest.

6. One hundred pupils each pay £8.75 towards a school trip. What is the total amount paid? (No calculator to be used!)

7. Prize money of £520 is to be shared equally between ten people. How much does each person receive? (No calculator to be used!)

8. Work out:

 (a) +4 - +7 (b) +4 x -5 (c) -15 ÷ +3

 (d) +3 - -8 (e) -1 x -1 (f) -4 + -5

9. A climber descends from the 6000ft summit of one mountain, then climbs to the 4800ft summit of the next mountain in the range. What is the difference in heights between the two mountains?

10. The table below shows the maximum and minimum temperatures recorded in six cities one day last year.

 **City** **Maximum** **Minimum**

 Los Angeles 22°C 12°C

 Boston 22°C -3°C

 Moscow 18°C -9°C

 Atlanta 27°C 8°C

 Archangel 13°C -15°C

 Cairo 28°C 13°C

(a) Which city in the table had the lowest temperature?

 (b) Work out the difference between the maximum temperature and the minimum temperature for Moscow.

1. If a Mars bar costs 32p and at the Cash and Carry there is a box of 30 Mars bars, how much will the box cost?

2. What is the product (remember this means ×) of the numbers 13 and 9?

3. I buy the following items as Christmas presents. A mobile phone at £9.99, a jumper at £19.99, a toy car at £3.50, a chocolate selection box at £1.99 and a pack of cards at £2.99. How much do I spend altogether?

4. In the sale a CD player originally £100 is now being advertised with 20% off. What will it cost me?

5. In the sale a football shirt originally £30 is now being advertised with 50% off. What will it cost me?

6. You have two water jugs, one holds 2 pints and the other holds 3 pints. How can you use them to pour quantities of :

a) 9 pints b) 11 pints c) 17 pints

7. Jane has £1.71 to spend on chocolate bars costing 12p each. How many can she buy and what change will she have left?

8. A car costs £6,000 new. The additional extras will cost you an extra 10%. How much will the car be?

9. Work out 12 × 162