ESTIMATING

Task 1 – Estimate each of the following calculations.

1) $1.58 + 2.31$

2) 4.56×11.34

3) 4.1^2

4) $5.23 \times 4.56 + 17.1$

5) $71.8 \div 3.92 + 18.6$

6) $123.4 - 78.9 \times 0.27$

7) $(4.89 + 7.13) \times 6.4$

8) $\frac{5.67 + 1.92}{0.52}$

9) $\frac{12.3 \times 4.5}{2.1} \times 9.8$

10) $\frac{278 \div \sqrt{97.2}}{3.4} + 4.5$

11) $\frac{0.25 \times 93 \times 87}{22 \div 3.9}$

12) $\frac{5}{2.1} + 3.09 \div 0.49$

Task 2

13) A mechanic replaces three car parts costing £85.60, £159.99 and £97.80. Estimate the total cost of the parts. Is your answer an under or overestimate? Give a reason for your answer.

14) A company produces 487 items a day for 26 days. Estimate the total number of items produced.

15) A cyclist travels 17.8 km in the morning and 26.4 km in the afternoon, then returns 22.9 km by car. Estimate the total distance travelled.

16) A teacher earns £298.55 a day for 195 days of work. Estimate their total earnings. Is your estimate an under or overestimate? Give a reason for your answer.

17) A tank holds 82.4 litres of water. Estimate many full 3.91 litre buckets can be filled from it. Is your estimate an under or overestimate? Give a reason for your answer.

18) A student scores 17.6, 22.3 and 15.9 in three quizzes. Estimate their total score.

19) A car travels 214.7 miles using 38.3 litres of fuel. Estimate the number of miles per litre. Is your estimate an under or overestimate? Give a reason for your answer.

20) A phone plan costs £26.48 per month. Estimate the cost of the phone plan after six months.

21) A company orders 196.8 metres of fabric, which costs £18.78 per metre. They also pay a fixed delivery fee of £37.95. Estimate their total cost. Is your estimate an under or overestimate? Give a reason for your answer.

22) A circular patio is being paved. The radius of the patio is 4.73 metres. Each paving slab covers approximately 0.49 m². Estimate how many slabs are needed to cover the whole patio.