Non Calculator	Estimates	AT2 L7

By rounding the numbers given calculate sensible estimates for the following sums. Remember you cannot round a number to zero.

1 $\frac{24 \times 57}{77}$

2 $\frac{58.2 \times 28.4}{18.27}$

3 $\frac{615 \times 49}{15 \times 26}$

4 $\frac{313 \times 38}{11 \times 23}$

5 $\frac{0.62 \times 416}{34}$

6 $\frac{1.85 \times 61.4}{30.6}$

7 $\frac{47.6 \times 3.1}{0.47}$

8 $\frac{77 \times 11}{387}$

9 $\frac{610 \times 4.98}{0.213}$

10 $\frac{(19)^2 \times 17}{44}$

11 $\frac{392.5 \times 0.23}{11.4 \times 19.3}$

12 $\frac{(4.3)^2 \times 21}{22.5 \times 3.8}$

13 $\frac{314 \times 18}{62}$

14 $\frac{3872 \times 0.98}{8.21}$

15 $\frac{0.0396 \times 782}{(8.2)^2}$

16 $\frac{5118 \times 0.09}{96 \times (4.8)^2}$

17 $\frac{0.0483 \times (98.6)^2}{12.2}$

18 $\frac{\sqrt{395} \times 0.39}{0.0951 \times 18.2}$

19 $\frac{38 \times (1.8)^2}{412 \times 0.021}$

20 $\frac{389.6 \times \sqrt{912}}{29 \times 0.48}$