



1.11 – Estimating, rounding

Student name: _____ Score: _____

1. Estimate the value of this calculation.

$$\frac{8.89 \times 61.3}{8.3 + 11.86}$$

Show clearly the values you use.

$$\frac{10 \times 60}{20}$$

..... 30 [3]

2. (a) Write 4725.6 correct to two significant figures.

..... 4700 [1]

- (b) Write 0.01026 correct to three decimal places.

..... 0.010 [1]

3. By rounding each number to 1 significant figure, estimate the value of this calculation.

Show all your working.

$$\frac{11.37 \times 289}{52.3 + 99.6}$$

$$\frac{10 \times 300}{50 + 100}$$

..... 20 [2]

4. (a) Write 5.30987 correct to 3 decimal places.

..... 5.310 [1]

- (b) Write 0.0036489 correct to 3 significant figures.

..... 0.00365 [1]

5. (a) Write 0.047996 correct to 4 decimal places.

..... 0.0480 [1]

- (b) Write 60449 correct to 3 significant figures.

..... 60 400 [1]

6. (a) Write 5249.6 correct to two significant figures.

..... 5 200 [1]

- (b) Write 0.0030626 correct to three decimal places.

..... 0.003 [1]

7. Write 7.29784 correct to 3 significant figures.

..... 7.30 [1]

8. By rounding each number correct to 1 significant figure, estimate the value of

$$\frac{189.6 \times 41.28}{0.00509 + 0.00298}$$

$$\frac{200 \times 40}{0.005 + 0.003}$$

..... 1 000 000 [3]

9. (a) Write 49 059 300 correct to 3 significant figures.

49 100 000 [1]

(b) Write your answer to **part (a)** in standard form.

4.91×10^7 [1]

10. (a) Write 4347 849 correct to the nearest ten thousand.

4 350 000 [1]

(b) Write 0.004 0243 correct to 2 significant figures.

0.0040 [1]