ROUNDING TO SIGNIFICANT FIGURES

Answer all of these questions. Remember to show your working out in all questions.

MAIN QUESTIONS

1.	42 to 1 s.f.	2.	567 to 1 s.f.
3.	789 to 1 s.f.	4.	123 to 2 s.f.
5.	456 to 2 s.f.	6.	789 to 2 s.f.
7.	1234 to 2 s.f.	8.	5678 to 2 s.f.
9.	999 to 2 s.f.	10.	1001 to 2 s.f.
11.	0.123 to 1 s.f.	12.	0.456 to 1 s.f.
13.	0.789 to 1 s.f.	14.	0.123 to 2 s.f.
15.	0.456 to 2 s.f.	16.	0.789 to 2 s.f.
17.	1.234 to 2 s.f.	18.	5.678 to 2 s.f.
19.	9.999 to 2 s.f.	20.	0.00123 to 1 s.f.
21.	100.5 to 3 s.f.	22.	9999 to 3 s.f.
23.	0.009876 to 2 s.f.	24.	123456 to 3 s.f.
25.	0.0005678 to 2 s.f.	26 .	3.456×10^{3} to 2 s.f.
27.	2.345 × 10^{-2} to 2 s.f.	28.	9.876 × 10^5 to 1 s.f.
29.	6.789 × 10^{-3} to 1 s.f.	30.	5.432 × 10^4 to 3 s.f.

- M1. The length of a rod is 2.345 metres. Round this to 2 significant figures.
- M2. The mass of a compound is 0.0054321 grams. Round this to 2 significant figures.
- M3. The Earth-Moon distance is 384400 km. Round this to 3 significant figures.
- M4. Light travels at 299792458 m/s. Round this speed to 3 significant figures.
- M5. A circle has radius 5.678 cm. Using π =3.14, find its area to 3 significant figures.
- M6. A hydrogen atom's radius is 0.00000000037 m. Round this to 1 significant figure.
- M7. A voltage reading is 12.345 volts. Round this to 3 significant figures.
- M8. Human hair diameter is 0.000081 metres. Round this to 1 significant figure.
- M9. A field measures 12345.67 m^2 . Round this area to 4 significant figures.
- M10. A car travels 567.89 km in 12.3 hours. Find its average speed to 3 significant figures in km/h.