1.

Calculate $1.827 \times 10^6 \div 9000$.
Give your answer in standard form.

.... [2]

MARK SCHEME:

2.03×10^2 cao	2	**B1** for 203 oe If 0 scored, **SC1** for writing *their* ordinary number correctly in standard form

2.

(a) Write these numbers in standard form.

   (i) 45 000

   .... [1]

   (ii) 0.0063

   .... [1]

(b) Calculate $8.2 \times 10^{-1} \times 150\,000$.
Give your answer in standard form.

   .... [2]

MARK SCHEME 2:

(a)(i)	4.5×10^4 cao	1	
(a)(ii)	6.3×10^{-3} cao	1	
1(b)	1.23×10^5 cao	2	**B1** for 123 000 oe seen

3.

Calculate $1 \div (6.4 \times 10^{-5})$.
Give your answer in standard form.

.... [2]

MARK SCHEME 3:

1.5625×10^4		2	**B1** for 1.56×10^4 or 1.562×10^4 or 1.563×10^4 or figs 15625

4.

(a) Write 0.00273 in standard form.

.... [1]

(b) Sam has to answer this question.

Calculate 9306×4532.

Give your answer in standard form correct to 3 significant figures.

Sam writes 42.1×10^{6} as his answer to this question.

What two errors has Sam made?

Error 1 ....

Error 2 ....

[2]

MARK SCHEME 4:

a)	2.73×10^{-3} cao	1	
b)	42.1 is incorrectly rounded [to 3 significant figures] oe 42.1×10^6 is not correct standard form oe	2	**B1** for each If **B0** scored, **SC1** for 4.22×10^7 seen

5.

Write 53 400 000 in standard form.

Answer .... [1]

MARK SCHEME:

	5.34×10^7	**1**	