

1 Arithmetic and numerical computation

Expressions in decimal and standard form

Decimal form

Guided question (p.xx)

1

Millions	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones	and Decimal point	Tenths $\left(\frac{1}{10}\right)$	Hundredths $\left(\frac{1}{100}\right)$	Thousandths $\left(\frac{1}{1000}\right)$	Ten-thousandths $\left(\frac{1}{10000}\right)$	Hundred-thousandths $\left(\frac{1}{100000}\right)$	Millionths $\left(\frac{1}{1000000}\right)$
						0	.	4	3				
						0	.	6					
					6	0	.	0	5				
					3	0	.	6	6				
					2	2	.	0	7	2			

Practice questions (p xx)

- 2 C because $\frac{7}{100} = 0.07$
- 3 A because $\frac{550}{1000} = 0.550$ (or 0.55)
- 4 B because six hundred and sixty-six and six tenths = 666.6
- 5 B because seventy and sixty-nine thousandths = 70.0069

Standard form

Guided question (p.xx)

1

Decimal form	Standard form	How the decimal place is moved
4200	4.2×10^3	Moved left 3 places
0.000 85	8.5×10^{-4}	Moved right 4 places
15.5	1.55×10	Moved left 1 place
0.008 88	8.88×10^{-3}	Moved right 3 places
5 500 000 000	5.5×10^9	Moved left 9 places

Practice question

- 2 a Group A silence scored 16.30 which is highest.
- b Group C canteen scored 14.68 which is lowest.
- c i Group A = 1.63×10
ii Group B = 1.605×10
iii Group C = 1.468×10