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SIGNIFICANT FIGURES

| Full number | 1sf | 2sf | 3sf | 4sf | 5sf |
|-------------|-----|-----|------|-------|--------|
| 9.378652 | 9 | 9.4 | 9.38 | 9.379 | 9.3787 |
| 4204274 | | | | | |
| 0.903521 | | | | | |
| 0.00239482 | | | | | |

| Full number | 1sf | 2sf | 3sf | 4sf | 5sf |
|-------------|---------|-----|------|-------|--------|
| 9.378652 | 9 | 9.4 | 9.38 | 9.379 | 9.3787 |
| 4204274 | 4000000 | | | | |
| 0.903521 | | | | | |
| 0.00239482 | | | | | |

| Full number | 1sf | 2sf | 3sf | 4sf | 5sf |
|-------------|---------|---------|------|-------|--------|
| 9.378652 | 9 | 9.4 | 9.38 | 9.379 | 9.3787 |
| 4204274 | 4000000 | 4200000 | | | |
| 0.903521 | | | | | |
| 0.00239482 | | | | | |

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|-------------|---------|---------|---------|-------|--------|
| 9.378652 | 9 | 9.4 | 9.38 | 9.379 | 9.3787 |
| 4204274 | 4000000 | 4200000 | 4200000 | | |
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|-------------|---------|---------|---------|---------|--------|
| 9.378652 | 9 | 9.4 | 9.38 | 9.379 | 9.3787 |
| 4204274 | 4000000 | 4200000 | 4200000 | 4204000 | |
| 0.903521 | | | | | |
| 0.00239482 | | | | | |

| Full number | 1sf | 2sf | 3sf | 4sf | 5sf |
|-------------|---------|---------|---------|---------|---------|
| 9.378652 | 9 | 9.4 | 9.38 | 9.379 | 9.3787 |
| 4204274 | 4000000 | 4200000 | 4200000 | 4204000 | 4204300 |
| 0.903521 | | | | | |
| 0.00239482 | | | | | |

| Full number | 1sf | 2sf | 3sf | 4sf | 5sf |
|-------------|---------|---------|---------|---------|---------|
| 9.378652 | 9 | 9.4 | 9.38 | 9.379 | 9.3787 |
| 4204274 | 4000000 | 4200000 | 4200000 | 4204000 | 4204300 |
| 0.903521 | 0.9 | | | | |
| 0.00239482 | | | | | |

| Full number | 1sf | 2sf | 3sf | 4sf | 5sf |
|-------------|---------|---------|---------|---------|---------|
| 9.378652 | 9 | 9.4 | 9.38 | 9.379 | 9.3787 |
| 4204274 | 4000000 | 4200000 | 4200000 | 4204000 | 4204300 |
| 0.903521 | 0.9 | 0.90 | | | |
| 0.00239482 | | | | | |

| Full number | 1sf | 2sf | 3sf | 4sf | 5sf |
|-------------|---------|---------|---------|---------|---------|
| 9.378652 | 9 | 9.4 | 9.38 | 9.379 | 9.3787 |
| 4204274 | 4000000 | 4200000 | 4200000 | 4204000 | 4204300 |
| 0.903521 | 0.9 | 0.90 | 0.904 | | |
| 0.00239482 | | | | | |

| Full number | 1sf | 2sf | 3sf | 4sf | 5sf |
|-------------|---------|---------|---------|---------|---------|
| 9.378652 | 9 | 9.4 | 9.38 | 9.379 | 9.3787 |
| 4204274 | 4000000 | 4200000 | 4200000 | 4204000 | 4204300 |
| 0.903521 | 0.9 | 0.90 | 0.904 | 0.9035 | |
| 0.00239482 | | | | | |

| Full number | 1sf | 2sf | 3sf | 4sf | 5sf |
|-------------|---------|---------|---------|---------|---------|
| 9.378652 | 9 | 9.4 | 9.38 | 9.379 | 9.3787 |
| 4204274 | 4000000 | 4200000 | 4200000 | 4204000 | 4204300 |
| 0.903521 | 0.9 | 0.90 | 0.904 | 0.9035 | 0.90352 |
| 0.00239482 | | | | | |

| Full number | 1sf | 2sf | 3sf | 4sf | 5sf |
|-------------|---------|---------|---------|---------|---------|
| 9.378652 | 9 | 9.4 | 9.38 | 9.379 | 9.3787 |
| 4204274 | 4000000 | 4200000 | 4200000 | 4204000 | 4204300 |
| 0.903521 | 0.9 | 0.90 | 0.904 | 0.9035 | 0.90352 |
| 0.00239482 | 0.002 | | | | |

| Full number | 1sf | 2sf | 3sf | 4sf | 5sf |
|-------------|---------|---------|---------|---------|---------|
| 9.378652 | 9 | 9.4 | 9.38 | 9.379 | 9.3787 |
| 4204274 | 4000000 | 4200000 | 4200000 | 4204000 | 4204300 |
| 0.903521 | 0.9 | 0.90 | 0.904 | 0.9035 | 0.90352 |
| 0.00239482 | 0.002 | 0.0024 | | | |

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|-------------|---------|---------|---------|---------|---------|
| 9.378652 | 9 | 9.4 | 9.38 | 9.379 | 9.3787 |
| 4204274 | 4000000 | 4200000 | 4200000 | 4204000 | 4204300 |
| 0.903521 | 0.9 | 0.90 | 0.904 | 0.9035 | 0.90352 |
| 0.00239482 | 0.002 | 0.0024 | 0.00239 | | |

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|-------------|---------|---------|---------|----------|---------|
| 9.378652 | 9 | 9.4 | 9.38 | 9.379 | 9.3787 |
| 4204274 | 4000000 | 4200000 | 4200000 | 4204000 | 4204300 |
| 0.903521 | 0.9 | 0.90 | 0.904 | 0.9035 | 0.90352 |
| 0.00239482 | 0.002 | 0.0024 | 0.00239 | 0.002395 | |

| Full number | 1sf | 2sf | 3sf | 4sf | 5sf |
|-------------|---------|---------|---------|----------|-----------|
| 9.378652 | 9 | 9.4 | 9.38 | 9.379 | 9.3787 |
| 4204274 | 4000000 | 4200000 | 4200000 | 4204000 | 4204300 |
| 0.903521 | 0.9 | 0.90 | 0.904 | 0.9035 | 0.90352 |
| 0.00239482 | 0.002 | 0.0024 | 0.00239 | 0.002395 | 0.0023948 |

RULES – where multiplication and division is involved

Your final answer should be given to the same number of significant figures as the least number of significant figures in the data used.

e.g. Calculate the average speed of a car that travels 1557 m in 95 seconds.

4 sf 2 sf



$$\text{average speed} = \frac{1557}{95} = \mathbf{16 \text{ m/s}} \text{ (2 sf)}$$

RULES – where multiplication and division is involved

Your final answer should be given to the same number of significant figures as the least number of significant figures in the data used.

e.g. Calculate the average speed of a car that travels 1557 m in 95.0 seconds.

4 sf 3 sf



$$\text{average speed} = \frac{1557}{95} = \mathbf{16.4 \text{ m/s}} \text{ (3 sf)}$$

RULES – where ONLY addition/subtraction is involved

Here the number of significant figures is irrelevant – it is about the place value of the data.

e.g. Calculate the total mass of calcium carbonate when 0.154 g and 0.01234 g are mixed.


nearest
0.001 g


nearest
0.00001 g

$$\text{Mass} = 0.154 + 0.01234 = \mathbf{0.166 \text{ g}} \text{ (nearest 0.001 g)}$$