

Examples 3 in Arithmetic 1

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Examples 3

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3.0. Find the sum of 3 of 1000s, 2 of 100s,
4 of 10s, and 5 of 1s

Examples 3

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$$3 \times 1000 + 2 \times 100 + 4 \times 10 + 5 \times 1 = 3245$$

3.1. Find the sum of 7 of 1000s, 12 of 100s, 16 of 10s, and 15 of 1s

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$$7 \times 1000 + 12 \times 100 + 16 \times 10 + 15 \times 1$$

$$= 7000 + 1200 + 160 + 15$$

$$= 7000 + 1000 + 200 + 100 + 60 + 10 + 5$$

$$= 8000 + 300 + 70 + 5$$

$$= 8375$$

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3.2. Find the sum of 18 of 1000s, 4 of 100s, and 128 of 1s

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$$18 \times 1000 + 4 \times 100 + 128 \times 1$$

$$= 18000 + 400 + 128$$

$$= 18000 + 400 + 100 + 28$$

$$= 18000 + 500 + 28$$

$$= 18528$$

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3.3. Find the sum of 12 of 1000s, 724 of 10s, and 309 of 1s

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$$12 \times 1000 + 724 \times 10 + 309 \times 1$$

$$= 12000 + 7240 + 309$$

$$= 10000 + 2000 + 7000 + 200 + 40 + 300 + 9$$

$$= 10000 + 9000 + 500 + 40 + 9$$

$$= 19549$$

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3.4. Find the sum of 27 of 1000s, 103 of 100s, 802 of 10s, and 109 of 1s

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$$27 \times 1000 + 103 \times 100 + 802 \times 10 + 109 \times 1$$

$$= 27000 + 10300 + 8020 + 109$$

$$= 20000 + 7000 + 10000 + 300 + 8000 + 20$$

$$+ 100 + 9$$

$$= 30000 + 15000 + 400 + 29$$

$$= 45000 + 429$$

$$= 45429$$

3.5. Find the sum of 308 of 1000s, 207 of 100s, 1003 of 10s, and 104 of 1s

$$308 \times 1000 + 207 \times 100 + 1003 \times 10$$

$$+ 104 \times 1$$

$$= 308000 + 20700 + 10030 + 104$$

$$= 300000 + 8000 + 20000 + 700 + 10000$$

$$+ 30 + 100 + 4$$

$$= 300000 + 30000 + 8000 + 800 + 34$$

$$= 338834$$

3.6. Find the sum of 2 of 1s, 52 of 0.01s,
and 75 of 0.001s

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$$2 \times 1 + 52 \times 0.01 + 75 \times 0.001$$

$$= 2 + 0.52 + 0.075$$

$$= 2 + 0.5 + 0.02 + 0.07 + 0.005$$

$$= 2 + 0.5 + 0.09 + 0.005$$

$$= 2.595$$

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3.7. Find the sum of 7 of 10s, 17 of 1s, 45 of 0.1s, 72 of 0.01s, and 902 of 0.001s

$$\begin{aligned} & 7 \times 10 + 17 \times 1 + 45 \times 0.1 + 72 \times 0.01 \\ & + 902 \times 0.001 \\ & = 70 + 17 + 4.5 + 0.72 + 0.902 \\ & = 70 + 10 + 7 + 4 + \mathbf{0.5} + \mathbf{0.7} + 0.02 + \mathbf{0.9} \\ & + 0.002 \\ & = 80 + 11 + \mathbf{21} \times \mathbf{0.1} + 0.02 + 0.002 \end{aligned}$$

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$$= 80 + 10 + 1 + 2.1 + 0.02 + 0.002$$

$$= 90 + 1 + 2 + 0.1 + 0.02 + 0.002$$

$$= 90 + 3 + 0.1 + 0.02 + 0.002$$

$$= 93.122$$

3.8. Find the sum of 12 of 10s, 127 of 1s,
95 of 0.1s, 143 of 0.01s, and 294 of 0.001s

$$\begin{aligned} & 12 \times 10 + 127 \times 1 + 95 \times 0.1 + 143 \times 0.01 \\ & + 294 \times 0.001 \\ & = 120 + 127 + 9.5 + 1.43 + 0.294 \\ & = 247 + 9 + 0.5 + 1 + 0.4 + 0.03 + 0.2 + 0.09 \\ & + 0.004 \\ & = 247 + 10 + 11 \times 0.1 + 12 \times 0.01 + 0.004 \end{aligned}$$

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$$= 257 + 1.1 + 0.12 + 0.004$$

$$= 257 + 1 + 0.1 + 0.124$$

$$= 258 + 0.224$$

$$= 258.224$$

3.9. Find the sum of 14 of 10s, 195 of 0.1s,
921 of 0.001s, and 109 of 0.0001s

$$14 \times 10 + 195 \times 0.1 + 921 \times 0.001$$

$$+ 109 \times 0.0001$$

$$= 140 + 19.5 + 0.921 + 0.0109$$

$$= 140 + 10 + 9 + 0.5 + 0.9 + 0.02 + 0.001$$

$$+ 0.01 + 0.0009$$

$$= 159 + 14 \times 0.1 + 0.03 + 0.0019$$

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$$= 159 + 1.4 + 0.0319$$

$$= 159 + 1 + 0.4 + 0.0319$$

$$= 160.4319$$

3.A. Find the sum of 207 of 1s, 2115 of 0.01s, 1000 of 0.001s, and 1501 of 0.0001s

$$\begin{aligned} & 207 \times 1 + 2115 \times 0.01 + 1000 \times 0.001 \\ & + 1501 \times 0.0001 \\ & = 207 + 21.15 + 1 + 0.1501 \\ & = 200 + 7 + 20 + 1 + 0.15 + 1 + 0.15 \\ & + 0.0001 \\ & = 229 + 2 \times 0.15 + 0.0001 \end{aligned}$$

$$= 229 + 0.3 + 0.0001$$

$$= 229.3001$$

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