

Examples 2 in Arithmetic 1

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Examples 2

Click the question to see the answer.

2.0. What is a number made of 2 of 1s, 5 of 10s, and 7 of 100s?

Examples 2

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$$2 \times 1 + 5 \times 10 + 7 \times 100 = 752$$

2.1. What number has none of 1s, 4 of 10s, and 9 of 100s?

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$$0 \times 1 + 4 \times 10 + 9 \times 100 = 940$$

2.2. If a number has 9 of 10s, 3 of 1s, and 12 of 100s, what is the number?

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$$\begin{aligned}9 \times 10 + 3 \times 1 + 12 \times 100 &= 3 + 90 + 1200 \\ &= 3 + 90 + 200 + 1000 = 1293\end{aligned}$$

2.3. What is a number that has 14 of 1s, 9 of 10s, 19 of 100s, and 19 of 1000s?

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$$14 \times 1 + 9 \times 10 + 19 \times 100 + 19 \times 1000$$

$$= 14 + 90 + 1900 + 19000$$

$$= 4 + 10 + 90 + 900 + 1000 + 9000 + 10000$$

$$= 4 + 100 + 900 + 10000 + 10000$$

$$= 4 + 1000 + 20000$$

$$= 21004$$

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2.4. What is a number has 12 of 10s, 215 of 1s, none of 100s, and 121 of 1000s?

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$$12 \times 10 + 215 \times 1 + 0 \times 100 + 121 \times 1000$$

$$= 120 + 215 + 121000$$

$$= 100 + 20 + 200 + 10 + 5 + 100000 + 20000$$

$$+ 1000$$

$$= 100000 + 20000 + 1000 + 300 + 30 + 5$$

$$= 121335$$

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2.5. What is a number has 2 of 0.1s, 5 of 0.01s, and 7 of 0.001s?

$$2 \times 0.1 + 5 \times 0.01 + 7 \times 0.001 = 0.2 + 0.05 + 0.007 = 0.257$$

2.6. What number has none of 0.1s, 4 of 0.01s, 7 of 0.001s, and 9 of 0.0001s?

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$$\begin{aligned} 0 \times 0.1 + 4 \times 0.01 + 7 \times 0.001 + 9 \times 0.0001 &= 0 \\ + 0.04 + 0.007 + 0.0009 &= 0.0479 \end{aligned}$$

2.7. If a number has 9 of 0.1s, 13 of 0.01s, and 24 of 0.001s, what is the number?

12

$$9 \times 0.1 + 13 \times 0.01 + 24 \times 0.001$$

$$= 0.9 + 0.13 + 0.024$$

$$= 0.9 + 0.1 + 0.03 + 0.02 + 0.004$$

$$= 1 + 0.05 + 0.004$$

$$= 1.054$$

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2.8. What number has 14 of 0.1s, 19 of 0.01s, 91 of 0.001s, and 19 of 0.0001s?

14

$$14 \times 0.1 + 19 \times 0.01 + 91 \times 0.001$$

$$+ 19 \times 0.0001$$

$$= 1.4 + 0.19 + 0.091 + 0.0019$$

$$= 1 + 0.4 + 0.1 + 0.09 + 0.09 + 0.001 + 0.001$$

$$+ 0.0009$$

$$= 1 + 0.5 + 0.18 + 0.002 + 0.0009$$

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$$= 1 + 0.5 + 0.1 + 0.08 + 0.002 + 0.0009$$

$$= 1 + 0.6 + 0.08 + 0.002 + 0.0009$$

$$= 1.6829$$

2.9. What number has 27 of 0.1s, 215 of 0.01s, none of 0.001s, and 151 of 0.0001s?

$$27 \times 0.1 + 215 \times 0.01 + 0 \times 0.001$$

$$+ 151 \times 0.0001$$

$$= 2.7 + 2.15 + 0 + 0.0151$$

$$= 2 + 0.7 + 2 + 0.1 + 0.05 + 0.01 + 0.005$$

$$+ 0.0001$$

$$= 4 + 0.8 + 0.06 + 0.005 + 0.0001$$

$$= 4.8651$$

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