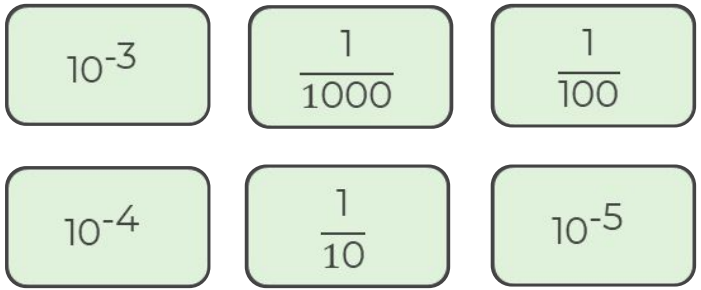
Convert small standard form numbers to ordinary form

Maths

Mr Chan

Convert small standard form numbers to ordinary form

1. Here are some number cards.



Which two number cards are equivalent to 0.001?

2. Write the numbers in ordinary form.

a) 5×10^{-5}

b) 3×10^{-3}

c) 6×10^{-4}

d) 8×10^{-7}

e) 2×10^{-6}

f) 4×10^{-8}

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3. Write the numbers in ordinary form.

a) 5.4×10^{-5}

b) 3.05×10^{-3}

c) 6.13×10^{-4}

d) 8.7×10^{-6}

e) 2.005×10^{-3}

f) 4.009×10^{-3}

4. Which number is greater?
How do you know?

0.000 755	8×10^{-5}

5. The density of two gases are shown.

Helium 1.78×10^{-4} g/cm^3

Hydrogen 8.99×10^{-5} g/cm^3

Which gas has a greater density?

Answers

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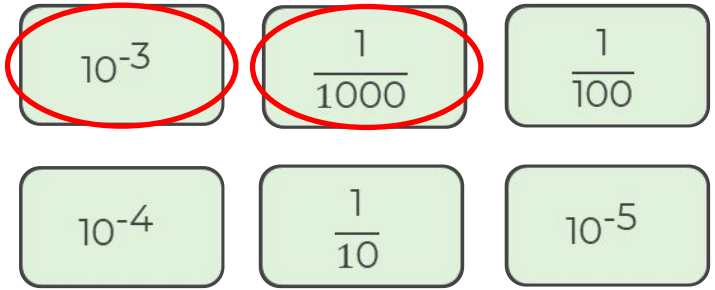
1. Here are some number cards.



Which two number cards are equivalent to 0.001?

2. Write the numbers in ordinary form.

a) $5 \times 10^{-5} = 0.000\ 05$

b) $3 \times 10^{-3} = 0.003$

c) $6 \times 10^{-4} = 0.0006$

d) $8 \times 10^{-7} = 0.000\ 000\ 8$

e) $2 \times 10^{-6} = 0.000\ 002$

f) $4 \times 10^{-8} = 0.000\ 000\ 04$

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3. Write the numbers in ordinary form.

a) $5.4 \times 10^{-5} = 0.000\ 054$

b) $3.05 \times 10^{-3} = 0.003\ 05$

c) $6.13 \times 10^{-4} = 0.000\ 613$

d) $8.7 \times 10^{-6} = 0.000\ 008\ 7$

e) $2.005 \times 10^{-3} = 0.002\ 005$

f) $4.009 \times 10^{-3} = 0.004\ 009$

4. Which number is greater?

How do you know?

$0.000\ 755$ | 8×10^{-5}

$8 \times 10^{-5} = 0.000\ 08$ is less than $0.000\ 755$

5. The density of two gases are shown.

Helium 1.78×10^{-4} g/cm^3

Hydrogen 8.99×10^{-5} g/cm^3

Which gas has a greater density?

$0.000\ 178 > 0.000\ 0899$