

Unit 01: Matter and Measurements

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Table of Contents

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1. Unit 01: Matter and Measurements

4. Chapter: Unit 01: Matter and Measurements

1. Unit 01: Matter and Measurements Questions

4.1.1. A large orange has a mass of 253 g. What is the mass of this orange...

Author: Joanna Smithback

A large orange has a mass of 253 g. What is the mass of this orange in kilograms?

Please choose only one answer:

- 2.53 kg
- 253,000 kg
- 0.560 kg
- 0.253 kg

Check the answer of this question online at QuizOver.com:

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4.1.2. Convert 16.8 lb to g (1 lb = 453.6 g).

Author: Joanna Smithback

Convert 16.8 lb to g (1 lb = 453.6 g).

Please choose only one answer:

- 762 g
- 3.70×10^{-2} g
- 76.2 g
- 7620 g

Check the answer of this question online at QuizOver.com:

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4.1.3. Convert 17.6 cm to in. (2.54 cm = 1 inch).

Author: Joanna Smithback

Convert 17.6 cm to in. (2.54 cm = 1 inch).

Please choose only one answer:

- 44.7 in.
- 4.47 in.
- 6.93 in.
- 69.3 in.

Check the answer of this question online at QuizOver.com:

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4.1.4. The density of copper is 8.92 g/mL. The mass of a piece of copper t...

Author: Joanna Smithback

The density of copper is 8.92 g/mL. The mass of a piece of copper that has a volume of 10.0 mL is _____.

Please choose only one answer:

- 0.892 g
- 892 g
- 89.2 g
- 8.9×10^2 g

Check the answer of this question online at QuizOver.com:

Question: [The density of copper is 8.92 g/mL. The Joanna Smithback @Saylor](#)

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4.1.5. Water is an example of a(n) _____.

Author: Joanna Smithback

Water is an example of a(n) _____.

Please choose only one answer:

- homogeneous mixture
- heterogeneous mixture
- compound
- element

Check the answer of this question online at QuizOver.com:

Question: [Water is an example of a n . Joanna Smithback @Saylor Foundat General](#)

Flashcards:

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4.1.6. How many significant figures are in the number 4.00700×10^{13} ...

Author: Joanna Smithback

How many significant figures are in the number 4.00700×10^{13} ?

Please choose only one answer:

- 2
- 4
- 5
- 6

Check the answer of this question online at QuizOver.com:

Question: [How many significant figures are in the Joanna Smithback @Saylor](#)

Flashcards:

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Interactive Question:

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4.1.7. How many significant figures are there in 0.00024056?

Author: Joanna Smithback

How many significant figures are there in 0.00024056?

Please choose only one answer:

- 9
- 5
- 4
- 7

Check the answer of this question online at QuizOver.com:

Question: [How many significant figures are there in Joanna Smithback @Saylor](#)

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4.1.8. If an analytical balance has a calibration error of +0.04 grams, then:

Author: Joanna Smithback

If an analytical balance has a calibration error of +0.04 grams, then:

Please choose only one answer:

- all masses measured will be underestimated by 0.04 grams.
- the balance measures masses accurately.
- all masses measured will be overestimated by 0.04 grams.
- B and C.

Check the answer of this question online at QuizOver.com:

Question: [If an analytical balance has a calibration Joanna Smithback @Saylor](#)

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4.1.9. What is the average of the following numbers: 12.3, 14.8, 20.4, 25....

Author: Joanna Smithback

What is the average of the following numbers: 12.3, 14.8, 20.4, 25.9, 26.3?

Please choose only one answer:

- 20.2
- 18.7
- 19.9
- 20.0

Check the answer of this question online at QuizOver.com:

Question: [What is the average of the following Joanna Smithback @Saylor General](#)

Flashcards:

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Interactive Question:

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4.1.10. What is the standard deviation for the numbers: 3.5, 4.7, 5.9?

Author: Joanna Smithback

What is the standard deviation for the numbers: 3.5, 4.7, 5.9?

Please choose only one answer:

- 0.98
- 1.02
- 1.20
- 0.94

Check the answer of this question online at QuizOver.com:

Question: [What is the standard deviation for the Joanna Smithback @Saylor General](#)

Flashcards:

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Interactive Question:

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4.1.11. What is the standard deviation of the masses: 5.92 g and 6.84 g?

Author: Joanna Smithback

What is the standard deviation of the masses: 5.92 g and 6.84 g?

Please choose only one answer:

- 0.16
- 0.33
- 0.65
- 1.30

Check the answer of this question online at QuizOver.com:

Question: [What is the standard deviation of the Joanna Smithback @Saylor General](#)

Flashcards:

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Interactive Question:

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4.1.12. Which of the following definitions is incorrect?

Author: Joanna Smithback

Which of the following definitions is incorrect?

Please choose only one answer:

- element: a single type of atom
- pure substance: variable composition
- heterogeneous mixture: two or more substances mixed together containing visible parts or phases
- compounds: two or more atoms present

Check the answer of this question online at QuizOver.com:

Question: [Which of the following definitions is Joanna Smithback @Saylor General](#)

Flashcards:

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4.1.13. Which of the following involves no chemical change?

Author: Joanna Smithback

Which of the following involves no chemical change?

Please choose only one answer:

- burning paper
- boiling water
- baking a cake
- lighting a match

Check the answer of this question online at QuizOver.com:

Question: [Which of the following involves no chemical Joanna @Saylor Foundat](#)

Flashcards:

<http://www.quizover.com/flashcards/which-of-the-following-involves-no-chemical-joanna-saylor-foundat?pdf=3044>

Interactive Question:

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4.1.14. Which of the following is a chemical change?

Author: Joanna Smithback

Which of the following is a chemical change?

Please choose only one answer:

- gasoline evaporating
- butter melting
- sugar dissolving in water
- paper burning

Check the answer of this question online at QuizOver.com:

Question: [Which of the following is a chemical Joanna Smithback @Saylor General](#)

Flashcards:

<http://www.quizover.com/flashcards/which-of-the-following-is-a-chemical-joanna-smithback-saylor-general?pdf=3044>

Interactive Question:

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4.1.15. Which of the following is a chemical change?

Author: Joanna Smithback

Which of the following is a chemical change?

Please choose only one answer:

- water boiling
- wine making
- butter melting
- sugar dissolution

Check the answer of this question online at QuizOver.com:

Question: [Which of the following is a chemical Joanna Smithback @Saylor General](#)

Flashcards:

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4.1.16. Which of the following is a physical change?

Author: Joanna Smithback

Which of the following is a physical change?

Please choose only one answer:

- burning gasoline
- digesting pizza
- evaporating alcohol
- rusting iron

Check the answer of this question online at QuizOver.com:

Question: [Which of the following is a physical Joanna Smithback @Saylor General](#)

Flashcards:

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Interactive Question:

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4.1.17. Which of the following is NOT a unit in the SI system of units?

Author: Joanna Smithback

Which of the following is NOT a unit in the SI system of units?

Please choose only one answer:

- kilogram
- second
- inch
- meter

Check the answer of this question online at QuizOver.com:

Question: [Which of the following is NOT a unit in Joanna Smithback @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/which-of-the-following-is-not-a-unit-in-joanna-smithback-saylor?pdf=3044>

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4.1.18. Which of the following symbols does not match the element name along...

Author: Joanna Smithback

Which of the following symbols does not match the element name alongside it?

Please choose only one answer:

- Al, Aluminum
- He, Hydrogen
- K, Potassium
- P, Phosphorus

Check the answer of this question online at QuizOver.com:

Question: [Which of the following symbols does not Joanna Smithback @Saylor](#)

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4.1.19. Which prefix is used to designate 1/1000?

Author: Joanna Smithback

Which prefix is used to designate 1/1000?

Please choose only one answer:

- m
- M
- k
- c

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Question: [Which prefix is used to designate 1/1000 Joanna Smithback @Saylor](#)

Flashcards:

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4.1.20. Which statement is true?

Author: Joanna Smithback

Which statement is true?

Please choose only one answer:

- A set of measurements may be accurate but not precise.
- A set of measurements may be precise but not accurate.
- The difference between the true value and measurements is standard deviation.
- None of the above.

Check the answer of this question online at QuizOver.com:

Question: [Which statement is true Joanna Smithback @Saylor Foundat General](#)

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