

Workbook answer key

1 A time to remember

Exercise 1

A

Verb	Past tense	Verb	Past tense
be	was/were	hide	hid
become	became	laugh	laughed
do	did	lose	lost
email	emailed	move	moved
get	got	open	opened
have	had	scream	screamed

B

My best friend in school ~~was~~ Michael. He and I ~~were~~ in Mrs. Gilbert's third grade class, and we ~~became~~ friends. We often ~~did~~ crazy things in class, but I don't think Mrs. Gilbert ever really ~~got~~ mad at us. For example, Michael ~~had~~ a pet monkey named Bananas. Sometimes he ~~hid~~ it in Mrs. Gilbert's desk. Later, when she opened the drawer, she always ~~screamed~~ loudly, and the class ~~laughed~~. After two years, Michael's family ~~moved~~ to another town. We ~~emailed~~ each other for a few years, but then we ~~lost~~ contact. I often wonder what he's doing now.

Exercise 2

SILVIO: No, I wasn't born there, actually. I'm originally from Portugal.

MARY: That's interesting. So, when ~~did you move~~ to Brazil?

SILVIO: I moved to Brazil when I was in elementary school.

MARY: Where ~~did you live~~?

SILVIO: We lived in Recife. It's a beautiful city in northeast Brazil. Then I went to college.

MARY: ~~Did you go~~ to school in Recife?

SILVIO: No, I went to school in São Paulo.

MARY: And what ~~did you study~~?

SILVIO: Oh, I studied engineering. But I'm here to go to graduate school.

MARY: Great! When ~~did you arrive~~?

SILVIO: I arrived last week. I start school in three days.

MARY: Well, good luck. And sorry for all the questions!

Exercise 3

Answers will vary.

Exercise 4

A
Rodrigo Santoro is from Petrópolis, near Rio de Janeiro, Brazil.
He is an actor.

B

- False: Rodrigo Santoro studied communication at university.
- True
- True
- False: He was nominated for an MTV Movie Award for the role of King Xerxes.

- False: He plays many different roles, such as a young man in a mental hospital, a king, and a president.

- True

Exercise 5

- My favorite pet was a cat called Felix.
- We used to go to ~~summer camp~~ during our vacations. It was really fun.
- There was a great ~~playground~~ in our neighborhood. We used to go there every afternoon.

Exercise 6

Answers will vary. Possible answers:

- They also ~~used to ride bicycles~~. Their dog Bruno always used to follow them.
- Kate ~~used to go to the beach~~ every weekend during summer vacation. She hardly ever goes now.
- Peter ~~used to collect comic books~~. They're now worth a lot of money.
- They ~~used to have a pet rabbit~~. They don't have any pets now.

Exercise 7

- A: ~~Did you use to collect shells?~~
B: No, we didn't collect shells. We used to build sand castles.
- A: ~~Did you use to swim?~~
B: Yes, we did. We used to swim for hours. Then we played all kinds of sports.
- A: Really? What ~~kinds of sports did you use to play?~~ or What ~~sports did you use to play?~~
B: Well, we used to play beach volleyball with some other kids.
- A: ~~Did you use to lose?~~
B: No, we didn't. We used to win!

Exercise 8

Answers will vary.

Exercise 9

MARIA: I'm an immigrant here. I ~~was~~ born in Chile and ~~grew up~~ there. I ~~came~~ here in 2005. I ~~wasn't~~ very happy at first. Things ~~were~~ difficult for me. I ~~didn't~~ speak English, so I ~~went~~ to a community college and ~~studied~~ English there. My English ~~got~~ better and I ~~found~~ this job. What about you?

Exercise 10

- A: Tell me a little about yourself.
B: ~~What do you want to know?~~
- A: How old ~~were~~ you when you moved here?
B: ~~About 16.~~
- A: Did you learn English here?
B: ~~No. I studied it in Morocco.~~
- A: By the way, I'm Lisa.
B: ~~Glad to meet you.~~

Inspired 3 Workbook Unit Answers

DJ Losen



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for the nitration 4 01 ml of nitric acid 4 00 ml of sulfuric acid and 4 56 ml bromobenzene were used to complete the reaction with these measurements bromobenzene was found to be the limiting reagent since only 4 56 ml of bromobenzene was used the amount of product predicted to be recovered was 8 7533 g

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the aim of the experiment is to determine and study electrophilic aromatic substitution reaction eas particularly nitration of methyl benzoate go give methyl m nitrobenzoate thus determine the weight melting point and percentage yield of the pure

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in this experiment we will carry out the nitration of bromobenzene bromine substituted on an aromatic ring is an ortho para directing group it will direct an incoming electrophile to the ortho and para positions it is also deactivating meaning that its reactions will be slower than the identical reactions of benzene

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section 20711 lab experiment nitration of bromobenzene introduction the chemical reaction of nitration consists of a nitro group being added to or substituted in a molecule nitration can basically be carried out by a mixture of concentrated nitric acid and sulfuric acid this mixture is useful to obtain the active nitronium ion

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1 go to the restroom and wash the affected area with lots of soap and water the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area 3 the summary to this warning is not to touch any part of your body while performing this experiment if you must leave the lab for any reason 1

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in the nitration of bromobenzene a mixture of sulfuric acid and nitric acid react with one another nitric acid the weaker of the two acids will serve as base to form nitronium ion bromobenzene will attack the nitronium ion by nucleophilic attack

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then actual is your actual findings yield actual theoretical $\times 100$ what are the possible side reactions of nitration of bromobenzene dinitration can occur at ortho para or at both ortho positions occurs in overheating meta product happens very rarely because bromine is an ortho para director

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the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area theory and explanation of the nitration of bromobenzene if the temperature of the reaction mixture exceeds 60 o

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the bromine substituent in bromobenzene is an ortho para director the para position is favored due to steric effects in the reaction that takes place in this lab a nitro group is substituted onto bromobenzene at the para position to form 1 bromo 4 nitrobenzene

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over 5 minutes slowly pipet this bromobenzene into the icy cold nitration mixture hno 3 h 2 so 4 in the 125 ml flask and stir continue to stir the reaction mixture in the ice bath for 30 minutes do not heat in a new 250 ml erlenmeyer

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on the right the arenium cation has a nitro set with incredibly small 0 6 angstrom bond distances this will result in an optimization failure as the atoms are even close for the programme to accomodate their electrons demonstration of creating the p arenium cation by to nitration of bromobenzene

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the purpose of this lab was to observe where substituents are added on a benzene ring by way of electrophilic aromatic substitution the electrophilic source in the nitration of bromobenzene comes from a nitronium ion no2 which acts as the electrophilic species

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nitration of bromobenzene is an electrophilic aromatic substitution reaction the electrophile will be formed from 4 0ml of nitric acid and 4 0ml of sulfuric acid and will then react with 4 5ml of bromobenzene this will produce o bromonitrobenzene and p bromonitrobenzene

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lab report 10 nitration of bromobenzene raekwon filmore cm 244 section 40 march 27 2018 introduction for this experiment nitration of bromobenzene was the focus of the lab the benzene is an aromatic compound and when it reacts with wither a mixture of sulfuric acid or nitric acid creates what is known as a nitro group