

# Workbook answer key

## Unit 1

### Lesson A

#### Exercise 1

##### Across:

- 3 fashion
- 4 art
- 8 languages

##### Down:

- 1 sports
- 2 politics
- 5 technology
- 6 culture
- 7 travel

#### Exercise 2

- |     |     |     |     |
|-----|-----|-----|-----|
| 1 e | 3 g | 5 h | 7 d |
| 2 c | 4 a | 6 b | 8 f |

#### Exercise 3

- 1 It's Gomez.
- 2 Yes, she is.
- 3 No, it isn't.
- 4 She's 22 years old.
- 5 She's from Mexico.
- 6 She's interested in soccer and tennis.
- 7 Yes, she is.
- 8 She's interested in China, Japan, and South Korea.

#### Exercise 4

- 1 Yolanda is interested in sports.
- 2 She's not interested in fashion.
- 3 She's interested in politics.
- 4 She's interested in travel.
- 5 She's not interested in art.
- 6 She's not interested in pop culture.
- 7 She's interested in literature.
- 8 She's interested in languages.

#### Exercise 5

- 1 What's your name?
- 2 Where are you from?
- 3 How old are you?
- 4 Are you married or single?
- 5 How old is your husband?
- 6 Are you interested in languages?
- 7 Are you interested in travel?

### Lesson B

#### Exercise 1

- Gina: Hi. This is Gina.  
Clerk: Hello, Gina. What's your lastname?  
Gina: My last name is Rodriguez.  
Clerk: Could you say that again, please?  
Gina: Sure. Rodriguez.  
Clerk: Oh, OK, Ms. Rodriguez. How do you spell that?  
Gina: R-O-D-R-I-G-U-E-Z.

#### Exercise 2

- 1 more slowly
- 2 more slowly
- 3 repeat
- 4 more slowly
- 5 repeat

### Lesson C

#### Exercise 1

- 1 gymnastics
- 2 swim
- 3 yoga
- 4 karate
- 5 table tennis
- 6 bowl
- 7 golf
- 8 ski
- 9 baseball

#### Exercise 2

- 1 do gymnastics
- 2 play table tennis
- 3 ski
- 4 do yoga
- 5 play golf

#### Exercise 3

- 1 A: What sports does she play?  
B: She plays table tennis.
- 2 A: Where do they do gymnastics?  
B: They do gymnastics at school.
- 3 A: Does he like karate?  
B: Yes, he does.
- 4 A: When do you play golf?  
B: I play golf in the morning.
- 5 A: Do you sell skis?  
B: No, we don't.
- 6 A: Do they swim in the afternoon?  
B: No, they don't.

#### Exercise 4

- |           |          |
|-----------|----------|
| 1 like    | 7. don't |
| 2 don't   | 8. likes |
| 3 like    | 9. do    |
| 4 When do | 10. play |
| 5 do      | 11. like |
| 6 Do      | 12. do   |

#### Exercise 5

- |         |         |
|---------|---------|
| 1 likes | 5 play  |
| 2 has   | 6 wins  |
| 3 wins  | 7 likes |
| 4 plays | 8 have  |

#### Exercise 6

- 1 What game does Linda like?
- 2 Does a miniature golf course have 18 holes?

- 3 Who does Linda play miniature golf with?
- 4 Where do Linda and Debbie / they play miniature golf?
- 5 When do Linda and Debbie / they play miniature golf?
- 6 Does Debbie like the game, too?

#### Exercise 7

Answers will vary.

### Lesson D

#### Exercise 1

The following items are checked: 1, 2, 6

#### Exercise 2

- 1 The decathlon has ten events.
- 2 Athletes throw things in three events.
- 3 The shot is a large heavy ball.
- 4 Men jump over hurdles on a 110-meter course.
- 5 The women's decathlon started in 2001.

## Unit 2

### Lesson A

#### Exercise 1

- |             |               |
|-------------|---------------|
| 1 friendly  | 6 creative    |
| 2 talkative | 7 funny       |
| 3 confident | 8 hardworking |
| 4 generous  | 9 serious     |
| 5 shy       |               |

#### Exercise 2

- 1 Ethan is shy but confident.
- 2 Rita is friendly and talkative / talkative and friendly.
- 3 Tom and Ed are serious and hardworking / hardworking and serious.
- 4 Paul and Yoko are creative.
- 5 Ms. Perez is generous.
- 6 Emma is funny.

#### Exercise 3

- 1 Laura is a shy but confident person.
- 2 Sue and Kelly are hardworking students.
- 3 Dana is a talkative and funny girl.
- 4 He's a serious but friendly guy.
- 5 She's a generous mother.
- 6 They're creative and confident musicians.
- 7 I'm a friendly person.
- 8 Mr. Nelson is a talkative but serious teacher.

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**J Spring**



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need to add a fourth element and represent your vectors in terms of homogenous coordinates it is possible to use non square matrices for certain purposes but if you want to be able to compose them in any order they should be square

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web orthogonality of the transformation matrix  $Q$  as in the two dimensional case the transformation matrix is orthogonal  $Q^T Q = I$  this follows from  $\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$  example consider a cartesian coordinate system with base vectors  $e_1, e_2$  a coordinate transformation is carried out with the new basis given by  $\begin{pmatrix} 3 & 2 \\ 2 & 3 \end{pmatrix}$

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web coordinates of  $v$  the standard coordinates are  $v = \begin{pmatrix} v_1 \\ v_2 \end{pmatrix}$  are the  $b_1, b_2$  are assumed if no other basis is specified this means  $v = v_1 b_1 + v_2 b_2$  if  $\{b_1, b_2\}$  is a basis of  $\mathbb{R}^n$  then the matrix  $S$  which contains the vectors  $b_k$  as column vectors is called the coordinate change matrix

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web and now that we know what  $d$  is we can now solve for  $a$  we can now solve for the transformation matrix with respect to the standard basis so to do that we have to figure out  $c$  and  $c$  inverse so  $c$  remember  $c$  is just the change of basis matrix and all that is is the basis vectors it's just a matrix with the basis vectors in the column

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web any vector  $v$  represented in  $b$  can be transformed to a representation in  $c$  as follows under the transformation of basis notice that the superscript on the transformation matrix  $m$  and the subscript on the coordinate vector  $v$  are the same and seemingly cancel leaving the remaining subscript

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