

# Information on the partial-credit system



Entrance exam for the Bachelor's Program in Business and Economics



# Assessment: point system with partial credit

- The **maximum point value** is indicated separately for each question.
- You can only earn the maximum point value for a particular question if you have selected **all of the correct answer options** and **none of the incorrect answers**.
- Partial credit is awarded for **questions that have been answered partially correctly**.

# Point calculation: more than one correct answer

- For questions with more than one correct answer, points are calculated as follows:
  - The **maximum point value (max)** of each question is indicated separately.
  - Each question has a specific number of **correct (c)** and **false (f)** answer options, for which the following applies:
    - For each correct answer selected, you receive **max/c** points.
    - For each incorrect answer selected, **max/f** points are subtracted.
  - Positive and negative points are **added up against each other** for each question.
  - **No question** will be scored **lower than zero** points, even if you select only false answers.

# Point calculation: one correct answer

- Questions with only one correct answer are scored on an “all-or-nothing” basis. In this case, points are calculated as follows:
  - The maximum number of points is awarded only if the one correct answer is selected and **none** of the false answers are marked.
  - If in addition to the one correct answer, **one or more of the false answers** are selected, the question is scored with **zero points**.
  - No question will be scored lower than zero.

# Point calculation: all answer options correct but one

- Questions with only one false answer are also calculated differently. In this case, points are calculated as follows:
  - The maximum number of points is awarded only if **all correct answer options** are marked and the one false answer is **not** selected.
  - If the one false answer is selected in addition to the correct answers, the question is scored with **half** of the maximum number of points.
  - If not all of the correct answers were selected, partial credit will be calculated (see the example on slide 13).
  - No question will be scored lower than zero.

# Point calculation: example

## More than one correct answer

- **Question:** Which of these rivers run through Austria? (maximum no. of points: **3**)
- Key:
  - max = maximum number of points
  - r = number of correct answers
  - f = number of false answers
- a. Danube (correct) (max/r =  $3/2 \rightarrow +1.5$  points)
- b. Inn (correct) (max/r =  $3/2 \rightarrow +1.5$  points)
- c. Elbe (false) (max/f =  $3/3 \rightarrow -1$  points)
- d. Volga (false) (max/f =  $3/3 \rightarrow -1$  points)
- e. Seine (false) (max/f =  $3/3 \rightarrow -1$  points)

# Point calculation: example

## More than one correct answer

- **Question:** Which of these rivers run through Austria? (max. no. of points: **3**)

### Answers selected:

- a. Danube (correct) (max/r =  $3/2 \rightarrow +1.5$  points)
- b. Inn (correct) (max/r =  $3/2 \rightarrow +1.5$  points)
- c. Elbe (false)
- d. Volga (false)
- e. Seine (false)

Points earned:  $1.5 + 1.5 = 3 \rightarrow$  the question is scored with **3 points**

# Point calculation: example

## More than one correct answer

- **Question:** Which of these rivers run through Austria? (max. no. of points: **3**)

### Answers selected:

- a. Danube (correct) (max/r = 3/2 → +1.5 points)
- b. Inn (correct)
- c. Elbe (false) (max/f = 3/3 → -1 point)
- d. Volga (false)
- e. Seine (false)

Points earned:  $1.5 - 1 = 0.5$  → the question is scored with **0.5 points**

# Point calculation: example

## More than one correct answer

- **Question:** Which of these rivers run through Austria? (max. no. of points: **3**)

### Answers selected:

- a. Danube (correct) (max/r = 3/2 → +1.5 points)
- b. Inn (correct)
- c. Elbe (false)
- d. Volga (false) (max/f = 3/3 → -1 points)
- e. Seine (false) (max/f = 3/3 → -1 points)

Points earned:  $1.5 - 1 - 1 = -0.5 \rightarrow$

the question is scored with **0 points** because no question can be scored below zero

# Point calculation: example

## More than one correct answer

- **Question:** Which of these cities is/are in Austria? (max. no. of points: **3**)

### Answers selected:

- Vienna (correct) (max/r = 3/3 → +1 point)
- Krems (correct) (max/r = 3/3 → +1 point)
- Lyon (false) (max/f = 3/2 → -1.5 points)
- d. Brighton (false)
- Dornbirn (correct) (max/r = 3/3 → +1 point)

Points earned:  $1 + 1 - 1.5 + 1 = 1.5 \rightarrow$

the question is scored with **1.5 points**

# Point calculation: example

## All answer options correct

- **Question:** Which of these cities is/are in Austria? (max. no. of points: **3**)

### Answers selected:

- a. Vienna (correct) (max/r = 3/5 → +0.6 points)
- b. Krems (correct) (max/r = 3/5 → +0.6 points)
- c. Linz (correct)
- d. Salzburg (correct)
- e. Dornbirn (correct) (max/r = 3/5 → +0.6 points)

Points earned:  $0.6 + 0.6 + 0.6 = 1.8 \rightarrow$

the question is scored with  
**1.8 points**

# Point calculation: example

## One correct answer

- **Question:** Which of these cities is/are in Austria? (max. no. of points: **5**)

### **Answers selected:**

- a. Vienna (correct)
- b. Valencia (false)
- c. Lyon (false)
- d. Brighton (false)
- e. Berlin (false)

→ The question is scored with **0 points**, because no partial credit is awarded for questions with only one correct answer (“all-or-nothing”).

# Point calculation: example

## One false answer

- **Example 1:** Which of these cities is/are in Austria? (max. no. of points: **4**)

### Answers selected:

- |                                       |                    |                             |
|---------------------------------------|--------------------|-----------------------------|
| <del>X</del> <input type="checkbox"/> | Vienna (correct)   | (max/r = 4/4 → +1 point)    |
| <del>X</del> <input type="checkbox"/> | Krems (correct)    | (max/r = 4/4 → +1 point)    |
| <del>X</del> <input type="checkbox"/> | Linz (correct)     | (max/r = 4/4 → +1 point)    |
| <del>X</del> <input type="checkbox"/> | Brighton (false)   | ( <b>max/2</b> = -2 points) |
| <del>X</del> <input type="checkbox"/> | Dornbirn (correct) | (max/r = 4/4 → +1 point)    |

Points earned:  $4 - 2 = 2$  → the question is scored with **2 points**

# Point calculation: example

## One false answer

- **Example 1:** Which of these cities is/are in Austria? (max. no. of points: **4**)

### Answers selected:

- ~~a.~~ Vienna (correct) (max/r = 4/4 → +1 point)
- ~~b.~~ Krems (correct) (max/r = 4/4 → +1 point)
- ~~c.~~ Linz (correct) (max/r = 4/4 → +1 point)
- ~~d.~~ Brighton (false) (**max/2** = -2 points)
- e. Dornbirn (correct)

Points earned:  $1 + 1 - 2 + 1 = 1 \rightarrow$  the question is scored with **1 point**