

THE GLOBE PROGRAM
Global Learning and Observations to Benefit the Environment

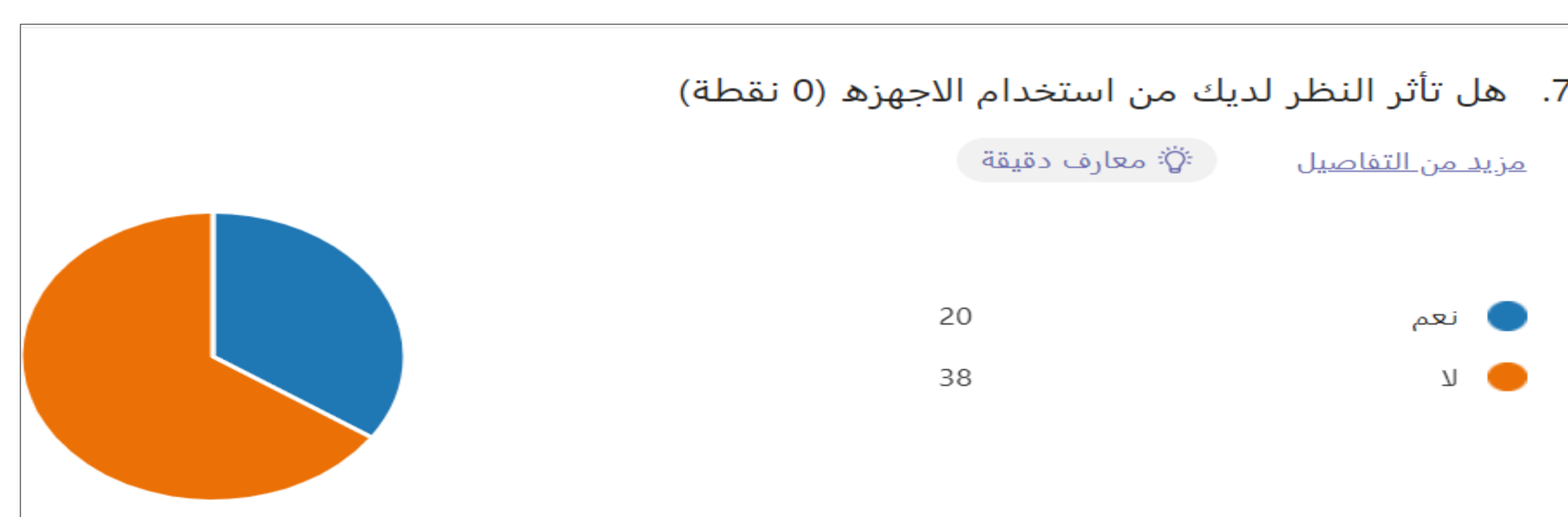
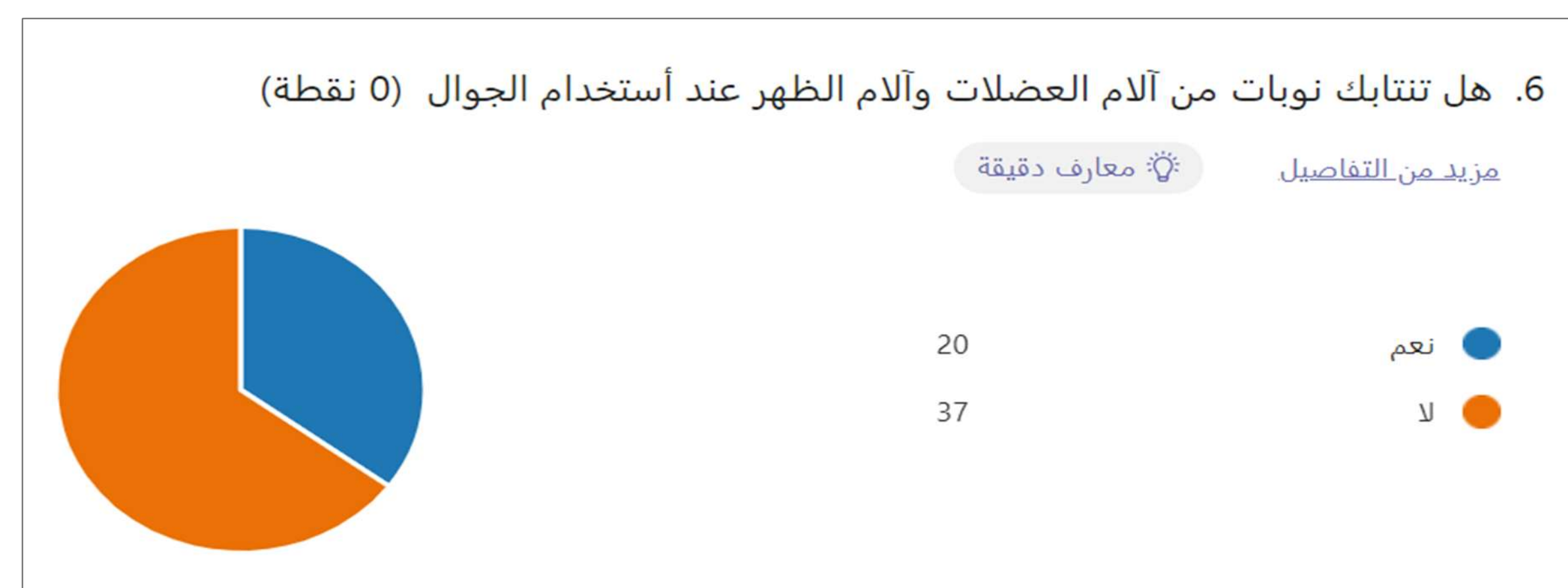
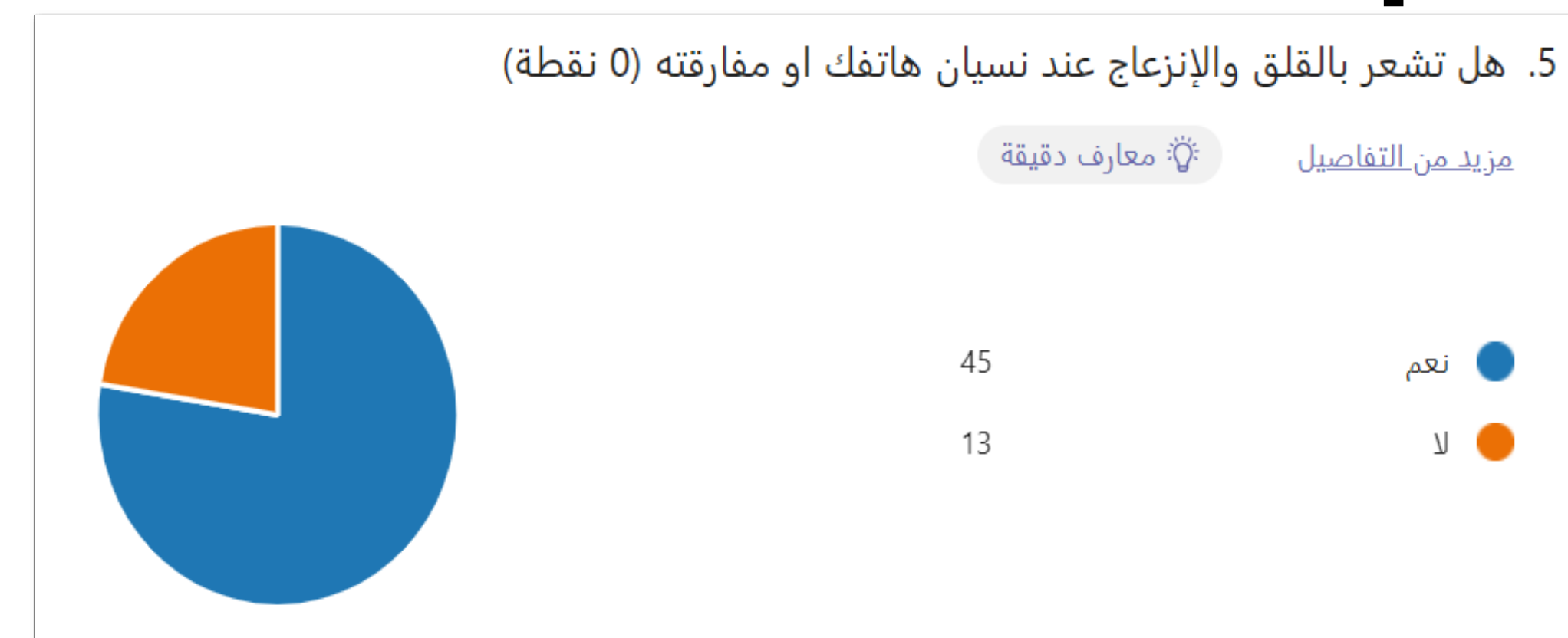
الثانوية العاشرة مقررات الطائف

3) عمل تدريبات بعد الإستخدام الطويل للأجهزة .

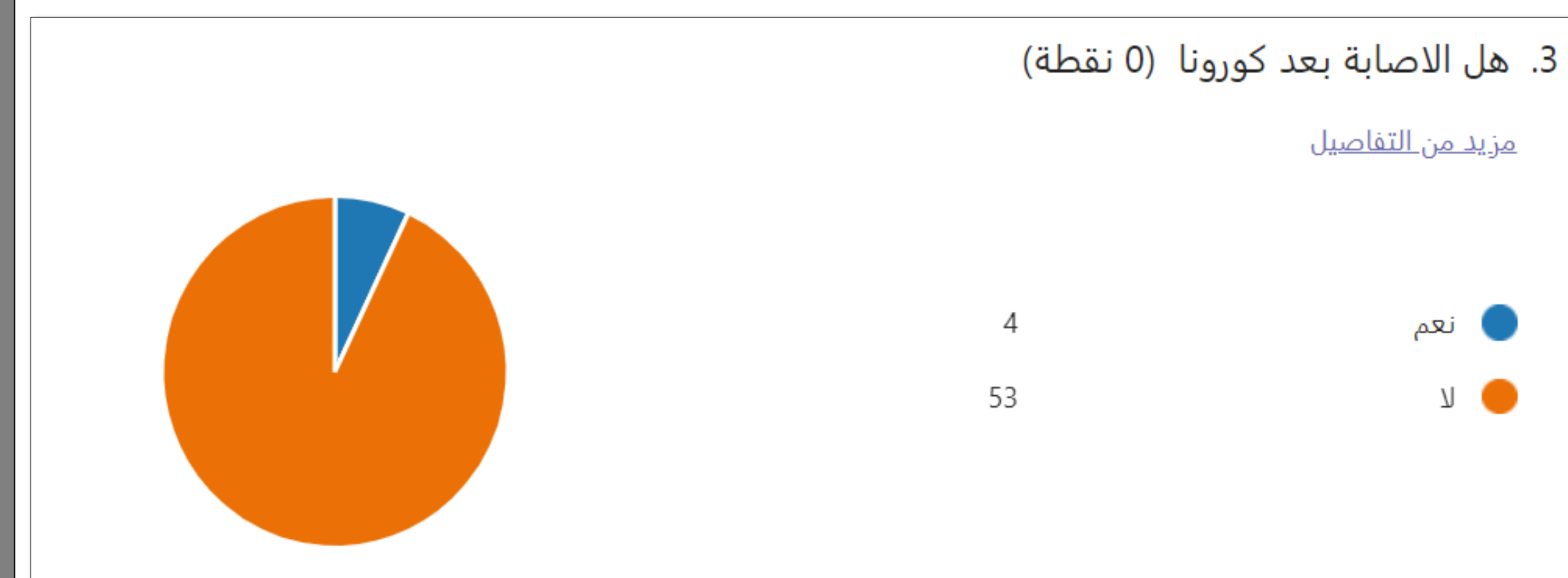
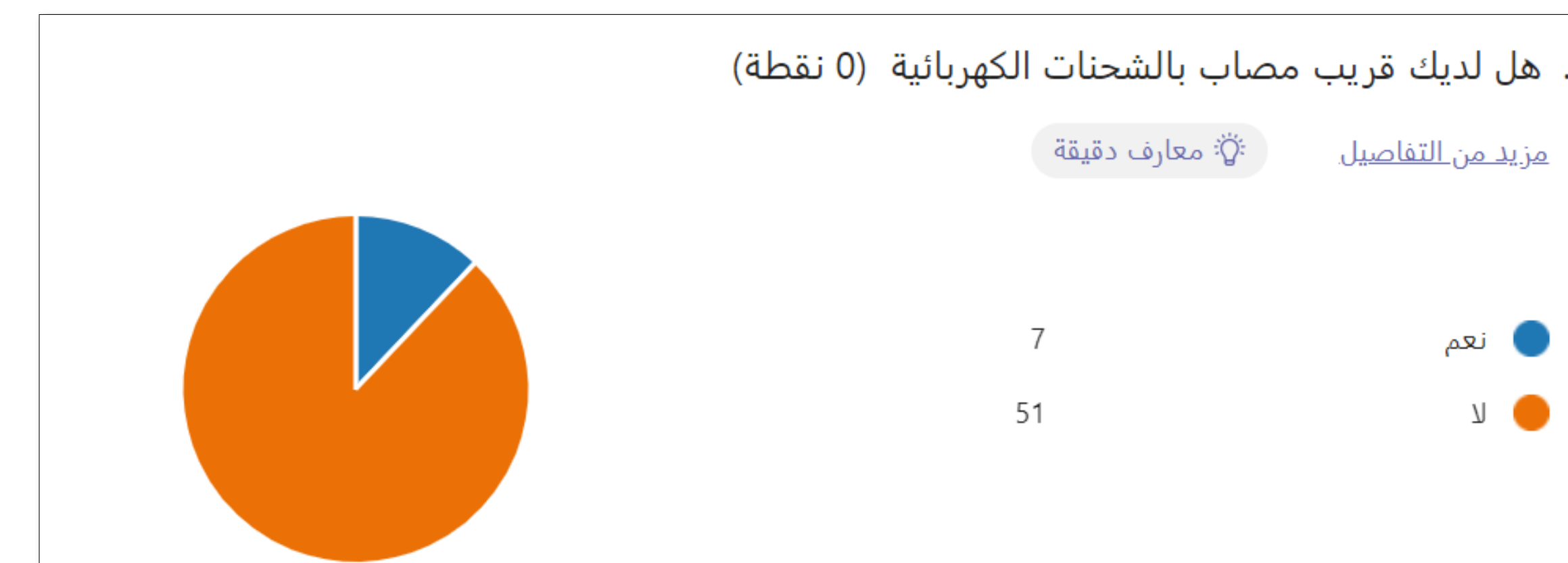
المحور الثالث : ما مدى زيادة حالات الإصابة بالشحنات الكهربائية قبل وبعد كورونا ؟

نظرا لما سببته ظاهرة كورونا من اللجوء إلى التحول الرقمي في كثير من مجالات الحياة مما يتطلب اعتماد أفراد المجتمع بشكل أكبر على الأجهزة والتي قد تسبب بعض المشاكل الصحية , وحيث أننا في التعليم فقد لاحظنا زيادة للإصابة بالشحنات الكهربائية فنحاول من خلال هذا البحث الربط بين استخدام الأجهزة والإصابة بالشحنات وهي إحدى مظاهر التلوث الكهرومغناطيسي .

ظاهرة معينة .



كما صوت نسبة 20 من 57 بأنهم يشعرون بالآلام في العضلات وضعف في النظر وربطوا ذلك باستخدامهم للأجهزة . لذلك نوصي بتقليل استخدام الأجهزة لتقليل الآثار الجانبية . ونوصي بمزاولة الرياضة وتمارين الإطالة لتقليل من آلام العضلات .



الإستبانه رقم 1-3 نلاحظ ظهور حالات للإصابة بالشحنات خلال فترة كورونا وهي من آثار التلوث الكهرومغناطيسي وخصوصا خلال فترة كورونا حدث زيادة في إستخدام الأجهزة من أجل التحول الرقمي .

3) تحتاج الطالبات لممارسة تدريبات بعد الاستخدام الطويل للأجهزة لتقليل الآثار المتعلقة بالعضلات

2)تشجيع الابتكار والإختراع لإيجاد جهاز مرفق مع أجهزة الجوال والكمبيوتر والألعاب الإلكترونية يعمل على إمتصاص الفائض من الشحنات .

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Ritaj Shiraz Alzahrani (Tenth secondary)

Summary :

This research aims to shed light on the effect of increasing the use of smart devices on a phenomenon of electromagnetic pollution (infection with electric charges), especially after the digital transformation during the Corona pandemic

:In this research, we noticed the following

The lack of sufficient studies of the relationship between injury from electric charges and the use of devices

The students were psychologically affected by -2
.the frequent use of devices for long periods

:We reached results including

1-The need to reduce the use of devices for long .hours

2-We need more studies on the relationship of devices to injury to electric charges

.3-Doing exercises after long use of the devices

Research questions :

The first axis: What are the possible solutions to reduce electromagnetic pollution?

The second axis: What are the negative effects of increasing the use of smart devices?

The third axis: What is the extent of the increase in cases of electric shocks before and after Corona?

Hypothesis :

Due to the Corona phenomenon caused by resorting to digital transformation in many areas of life, which requires community members to rely more on devices, which may cause some health problems, and since we are in education, we have noticed an increase in the incidence of electric charges, so we try through this research to link the use of devices Infection with shipments, which is one of the manifestations of electromagnetic pollution.

Research sample:

Tenth secondary school students 2023

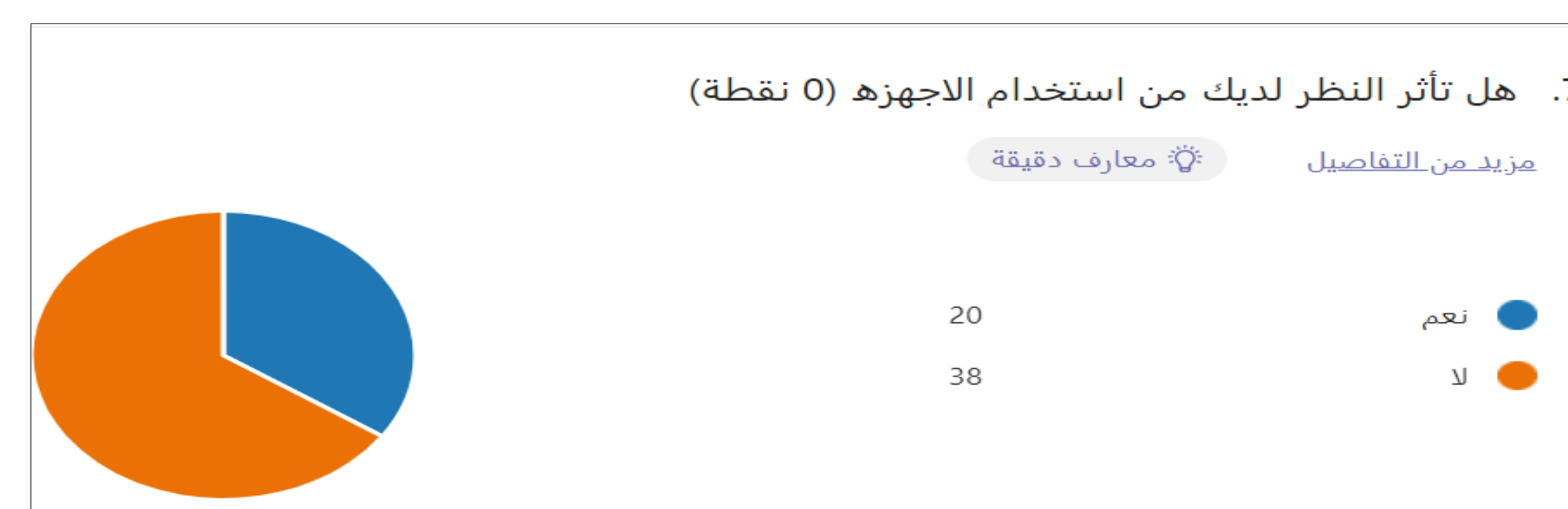
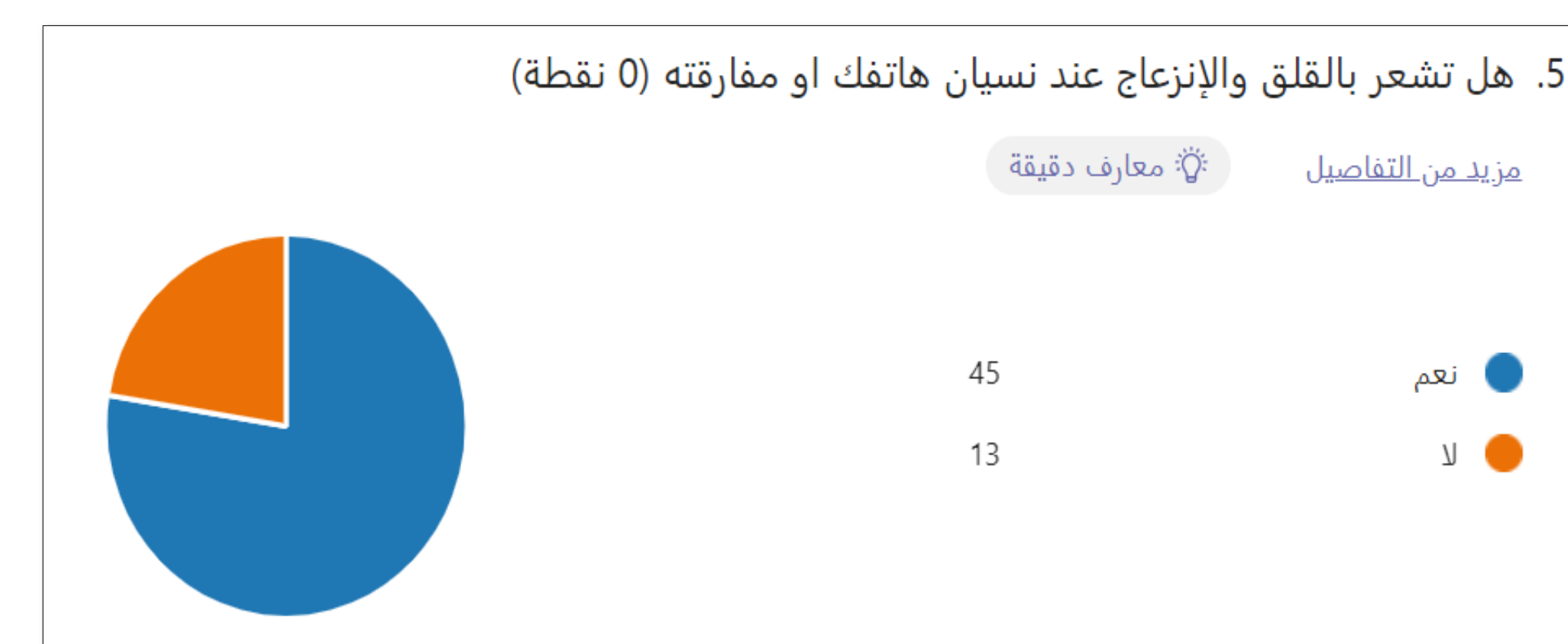
Research Methodology:

It adopts a quantitative research method based on questionnaires and data obtained from Al-Hada Hospital

Research tools: questionnaire

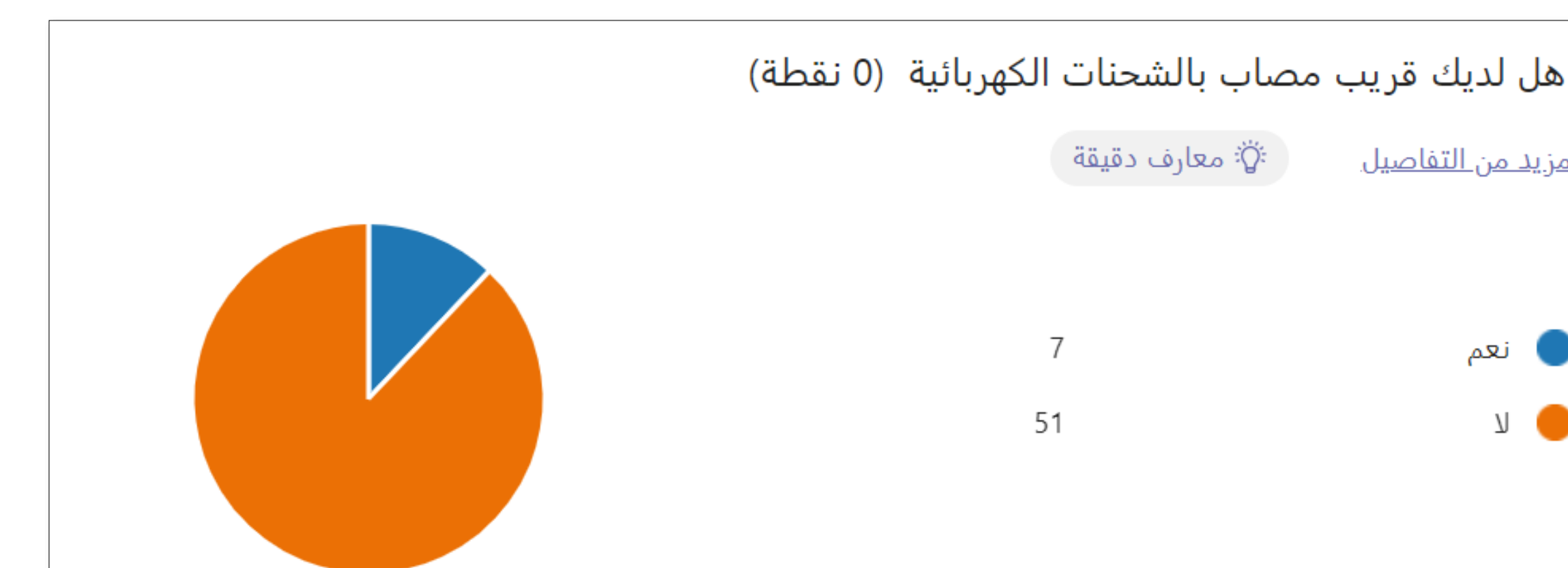
Statistical methods: The researchers used the descriptive factorial analysis, which through logical and realistic analysis of the impact of various variables on a particular phenomenon.

CData :



Through paragraphs 5-6-7 in the questionnaire from the annex, we notice psychological and physical effects for the students, as 45 voted that they feel anxious and disturbed when leaving the cell phone.

Also, 20 out of 57 voted that they feel muscle pain and weak eyesight, and linked this to their use of devices. Therefore, we recommend reducing the use of devices to reduce side effects. We recommend practicing sports and stretching exercises to reduce muscle pain.



Questionnaire No. 1-3 We note the emergence of cases of infection with shipments during the Corona period, which is one of the effects of electromagnetic pollution, especially during the Corona period, there was an increase in the use of devices for digital transformation.

Results:

This study resulted in a number of results, as follows:

1-The need to reduce the use of devices for long hours.

2-We need more studies on the relationship of devices to injury to electric charges.

3-The students need to practice exercises after the long use of the devices to reduce the effects related to the muscles

Recommendations "Discussion"

1-Conducting more studies examining the relationship between electric charges and the use of devices.

2-Encouraging innovation and invention to find a device attached to mobile devices, computers and electronic games that works to absorb surplus shipments.

References

Ahmed Abdel Qader, the engineer. (2017). electromagnetic pollution. Al-riyadh newspaper.

Hassan Ibrahim Al-Awad. (November 23, 2019). The effect of electromagnetic radiation on human health and the relationship of electrical conductivity to water ionization. Retrieved from sustech repository: <https://repository.sustech.edu/handle/123456789/26555>

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