

## Lesson 3.7: Assessment Exercises

### Objectives

After completing this lesson, students will:

- ❖ Have an understanding of how much they learned and understood during Unit 3

### Agenda

- |   |         |
|---|---------|
| 1. Student Activity                                     | 30 mins |
| 2. Class Discussion: Review<br>Student Activity Answers | 20 mins |

### Preparation

- Print student activity worksheet (one per student)

### Resources & Links

- None

### 1. Student Activity: Assessment Puzzles

Distribute one worksheet per student. This is an assessment activity for material covered in Unit 3. Explain the activity to students. Leave enough time at the end to go over the answers.

### 2. Class Activity: Review Answers



**Engage** students in an interactive discussion and review of the answers to each of the exercises.

#### Solution to Student Activity:

1. Circle all passwords that are **strong** passwords.

blaH#blah    
  hey748596    
  super8Girl

2. It's not a good idea to install system security updates because they will infect your computer.

**False**

3. Which statements are true about images?

- Images cannot be represented by binary numbers
- Images are made of tiny dots called pixels
- Images can be represented by numbers
- An image with 300 pixels per inch requires less storage than an image with 72 pixels per inch (images are the same size in inches)
- A colored pixel requires more bytes of storage in memory than the letter "B"

4. How many bytes of storage does it take to save a text file with the word "doggie"?

**6 bytes, one for each letter.**

5. When you attribute somebody else's image you are using in your project, which information should you include? (check all that apply)

- a.  Image title
- b.  Name of the author

- c. Age of the author
- d.  Source of the image (where you found it)
- e.  Type of license of the image

6. The reason copyright law exist is:

- To protect creative work and to help creators and artists get paid for their work.

7. Fill in the blanks with the correct word.

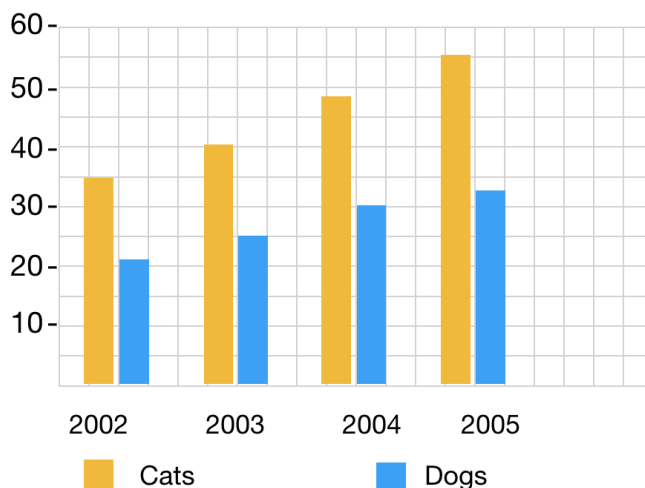
Lidia takes a photo and posts it on the internet. Her photo is now **copyrighted** which grants Lidia legal rights to decide how her photo is used by others

Alison has 6 pets, 4 of them are cats. This statement is an example of a **quantitative statement**.

If you use somebody else’s image in your project, you must always **attribute** the image. If you don’t do that and use their work as if it were your own you would be committing **plagiarism**.

It is a good idea to **backup** your data so you can restore it if you lose it in a computer crash or a hack.

8. a) There is no single way to represent the data, but a vertical bar graph could look like this:



b) There are many statements that could be made. This is just one.

- In 2003, 40 cats were adopted.
- c) Again, there are many statements that can be made.
- From 2002 to 2005, more cats were adopted than dogs.
  - In 2002, more cats were adopted than dogs.
9. The creator of an image can license their image to authorize someone else to use without having to ask for permission.  
**True**
10. The Fair Use rule can be used to legally include a song from a famous singer in a school project.  
**True**

## Student Activity: Check Your Knowledge

1. Circle all passwords that are **strong** passwords.

blaH#blah hey748596 super8Girl

2. It's not a good idea to install system security updates because they will infect your computer.

- True
- False

3. Which statements are true about images?

- Images cannot be represented by binary numbers
- Images are made of tiny dots called pixels
- Images can be represented by numbers
- An image with 300 pixels per inch requires less storage than an image with 72 pixels per inch (images are the same size in inches)
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4. How many bytes of storage does it take to save a text file with the word "doggie"?

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5. When you attribute somebody else's image, which information should you include? (check all that apply)

- a. Image title
- b. Name of the author
- c. Age of the author
- d. Source of the image (where you found it)
- e. Type of license of the image

6. The reason copyright laws exist is:

- To forbid people from sharing any creative work
- To protect creative work and to help creators and artists get paid for their work.
- Only to protect books from being duplicated without the permission of their author.

7. Fill in the blanks with the correct word..

<b>attribute</b>	<b>quantitative statement</b>
<b>backup</b>	<b>plagiarism</b>
	<b>copyrighted</b>

Lidia takes a photo and posts it on the internet. Her photo is now \_\_\_\_\_ which grants Lidia legal rights to decide how her photo is used by others

Alison has 6 pets, 4 of them are cats. This statement is an example of a \_\_\_\_\_.

If you use somebody else's image in your project, you must always \_\_\_\_\_ the image. If you don't do that and use their work as if it were your own you would be committing \_\_\_\_\_.

It is a good idea to \_\_\_\_\_ your data so you can restore it if you lose it in a computer crash or a hack.

8. The data below from the animal shelter shows data categorized by year and how many cats and dogs were adopted each year.

Number of Pets Adopted at the Animal Shelter		
Year	Cats	Dogs
2002	35	20
2003	40	25
2004	48	30
2005	55	38

a) Visualize the data using a bar graph. Use the grid provided to help with your drawing.



Don't forget to label the bottom of the graph and make sure it is clear which is the cat data and which is the dog data.



b) Write a quantitative statement about cats and dogs adopted.

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9. The creator of an image can license their image to authorize someone else to use it without having to ask for permission.

- True
- False

10. The Fair Use rule can be used to legally include a song from a famous singer in a school project.

- True
- False