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| **Internet Protocols - Worksheet** | **Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |

1. What is meant by the term “Protocol”?   
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. What is the main responsibility of Protocols used in Internet transmission?

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3. What does TCP stand for?

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4. What is the main role of TCP?

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5. What does IP stand for?

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6. What version of IP are we currently using and what version are we moving towards?

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7. What is the main role of IP?

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8. What is meant by the terms “Private” and a “Public” IP address and what is the difference between the two?

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9. Give one example of where a Private IP address might be used:

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10. Give one example of where a Public IP address might be used:

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11. What is meant by the terms “Static” and “Dynamic” IP addresses and what is the difference between the two?

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12. Describe the steps that data about to be sent over a network has to go through in order to be transmitted (your answer should include information about both IP and TCP):

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**EXTENSION TASK:**

Complete the below wordsearch by finding all of the different networking protocols including their abbreviations (for all but one) **- the challenge**…….no clues and it includes protocols we have not yet covered. There are 17 words to find!!

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **H** | **A** | **C** | **I** | **V** | **T** | **E** | **F** | **S** | **F** | **C** | **O** | **E** | **E** | **Q** | **Y** | **Q** | **H** | **Z** | **D** | **I** | **O** | **I** | **X** | **V** | **U** | **N** | **R** | **R** | **B** | **W** | **R** |
| **A** | **Y** | **F** | **X** | **E** | **W** | **B** | **S** | **I** | **D** | **B** | **J** | **D** | **A** | **C** | **M** | **O** | **X** | **P** | **Y** | **P** | **S** | **N** | **L** | **N** | **W** | **J** | **B** | **L** | **E** | **S** | **R** |
| **Y** | **S** | **P** | **X** | **R** | **E** | **K** | **F** | **B** | **L** | **R** | **J** | **X** | **H** | **D** | **X** | **Z** | **C** | **Q** | **N** | **U** | **B** | **Z** | **F** | **A** | **N** | **J** | **E** | **D** | **T** | **E** | **J** |
| **S** | **O** | **K** | **E** | **Z** | **H** | **W** | **P** | **K** | **K** | **E** | **R** | **Y** | **A** | **T** | **J** | **V** | **W** | **X** | **Z** | **G** | **Z** | **T** | **C** | **W** | **J** | **Y** | **S** | **C** | **Y** | **S** | **I** |
| **N** | **A** | **T** | **R** | **R** | **S** | **M** | **T** | **P** | **O** | **S** | **T** | **O** | **F** | **F** | **I** | **C** | **E** | **P** | **R** | **O** | **T** | **O** | **C** | **O** | **L** | **L** | **R** | **T** | **D** | **Y** | **W** |
| **N** | **X** | **T** | **F** | **E** | **T** | **B** | **A** | **P** | **V** | **B** | **P** | **R** | **K** | **B** | **M** | **C** | **V** | **G** | **X** | **B** | **R** | **J** | **P** | **F** | **H** | **S** | **V** | **X** | **K** | **W** | **U** |
| **X** | **Z** | **L** | **N** | **O** | **L** | **E** | **D** | **R** | **S** | **N** | **S** | **U** | **A** | **E** | **Z** | **Z** | **F** | **N** | **L** | **E** | **A** | **A** | **A** | **N** | **O** | **J** | **T** | **F** | **D** | **Z** | **D** |
| **O** | **V** | **X** | **Q** | **O** | **U** | **N** | **X** | **Q** | **F** | **Y** | **V** | **T** | **B** | **N** | **W** | **P** | **W** | **H** | **R** | **V** | **N** | **R** | **E** | **F** | **Z** | **S** | **T** | **M** | **K** | **B** | **Y** |
| **G** | **I** | **D** | **Q** | **R** | **Q** | **J** | **N** | **T** | **M** | **R** | **E** | **Y** | **A** | **L** | **S** | **T** | **E** | **K** | **C** | **O** | **S** | **E** | **R** | **U** | **C** | **E** | **S** | **Z** | **K** | **T** | **C** |
| **Q** | **L** | **S** | **B** | **G** | **Z** | **D** | **D** | **L** | **T** | **O** | **J** | **Z** | **R** | **Y** | **A** | **F** | **N** | **P** | **R** | **U** | **M** | **Q** | **I** | **M** | **M** | **Q** | **K** | **G** | **J** | **M** | **M** |
| **H** | **U** | **M** | **Z** | **L** | **A** | **E** | **B** | **Z** | **C** | **R** | **W** | **M** | **G** | **A** | **N** | **P** | **E** | **Q** | **V** | **I** | **I** | **F** | **C** | **V** | **M** | **H** | **H** | **Z** | **Y** | **O** | **C** |
| **D** | **E** | **F** | **J** | **X** | **F** | **Y** | **N** | **N** | **S** | **V** | **A** | **C** | **L** | **E** | **B** | **X** | **S** | **R** | **O** | **M** | **S** | **B** | **G** | **F** | **Z** | **N** | **N** | **W** | **E** | **T** | **I** |
| **W** | **R** | **S** | **F** | **A** | **C** | **C** | **O** | **E** | **S** | **O** | **I** | **N** | **H** | **E** | **V** | **A** | **B** | **N** | **P** | **F** | **S** | **U** | **C** | **M** | **E** | **U** | **C** | **Z** | **M** | **T** | **S** |
| **V** | **D** | **C** | **W** | **Y** | **G** | **W** | **O** | **H** | **F** | **D** | **L** | **E** | **S** | **V** | **Y** | **N** | **S** | **K** | **V** | **R** | **I** | **O** | **X** | **B** | **K** | **M** | **K** | **D** | **R** | **F** | **X** |
| **W** | **F** | **U** | **W** | **A** | **P** | **I** | **P** | **H** | **X** | **H** | **E** | **M** | **R** | **F** | **Z** | **D** | **J** | **V** | **L** | **E** | **O** | **I** | **D** | **H** | **W** | **T** | **P** | **C** | **E** | **E** | **O** |
| **U** | **R** | **D** | **N** | **P** | **J** | **Y** | **Q** | **X** | **Q** | **V** | **F** | **P** | **J** | **J** | **E** | **P** | **P** | **M** | **E** | **C** | **N** | **T** | **M** | **P** | **Q** | **P** | **S** | **A** | **E** | **V** | **U** |
| **L** | **O** | **C** | **O** | **T** | **O** | **R** | **P** | **T** | **E** | **N** | **R** | **E** | **T** | **N** | **I** | **R** | **E** | **V** | **O** | **E** | **C** | **I** | **O** | **V** | **X** | **P** | **K** | **R** | **T** | **V** | **U** |
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| **T** | **T** | **K** | **J** | **B** | **P** | **U** | **X** | **Q** | **N** | **I** | **P** | **W** | **F** | **N** | **F** | **N** | **Z** | **P** | **O** | **E** | **T** | **U** | **O** | **X** | **L** | **L** | **B** | **T** | **N** | **K** | **E** |
| **U** | **L** | **R** | **M** | **S** | **L** | **M** | **R** | **K** | **U** | **T** | **I** | **J** | **O** | **Q** | **H** | **Y** | **Q** | **D** | **V** | **T** | **R** | **U** | **O** | **O** | **E** | **M** | **I** | **X** | **R** | **X** | **U** |
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| **H** | **R** | **J** | **S** | **I** | **M** | **P** | **L** | **E** | **M** | **A** | **I** | **L** | **T** | **R** | **A** | **N** | **S** | **F** | **E** | **R** | **P** | **R** | **O** | **T** | **O** | **C** | **O** | **L** | **J** | **V** | **X** |
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| **E** | **H** | **V** | **N** | **P** | **J** | **P** | **C** | **J** | **V** | **E** | **A** | **A** | **X** | **D** | **S** | **G** | **G** | **G** | **I** | **X** | **C** | **G** | **V** | **F** | **W** | **X** | **L** | **U** | **W** | **O** | **U** |
| **X** | **F** | **M** | **J** | **M** | **V** | **Y** | **L** | **G** | **Q** | **F** | **Y** | **A** | **T** | **W** | **A** | **Z** | **U** | **J** | **D** | **D** | **O** | **A** | **U** | **T** | **S** | **E** | **B** | **B** | **R** | **T** | **H** |
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