THE STRIVING

MUSLIM ACADEMY

Islamic and Academic Education

STAGE 6 · COMPUTING · NETWORKS AND THE INTERNET

Networks and the internet

Everything the questions ask about is taught on the page before them, so nobody has to know the computing beforehand.

WHAT IS INSIDE

- What a network is
- The web is not the internet
- How a search decides what to show you
- How a message actually gets there
- Go and do this
- How each one is worked

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4 topics · something to do at the end

Written for a parent teaching at home. No training assumed, and nothing else to buy.

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How a search decides what to show you

Read this first. Then answer the questions underneath.



A search engine does not look at the whole internet when you type. It looked earlier, and kept a list.

Programs called crawlers follow links from page to page all day, and write down what is on each one. That list is what gets searched.

When your words match many pages, something has to decide the order. That decision is called ranking, and it uses things like how many other pages link to a page, how well the words match, and how recently it changed.

Being first does not mean being right. It means a program judged it most likely to be what somebody like you wanted.

Using search technologies effectively means knowing that, and being discerning about what you find rather than taking the first answer.

1. **What are the programs that follow links called?**
   One word.

2. **What is deciding the order called?**
   One word.

3. **Name two things ranking uses.**
   Three are listed.

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Quick check



One right answer each, and every answer is somewhere in this pack. Ring the letter.

1. **How a message actually gets there How are the packets put back together?**
   (A) Using the numbers (B) A network of networks (C) Packets (D) Email is another. A video call is another

2. **The web is not the internet Name three things besides the web that travel on the internet.**
   (A) Ranking (B) Using the numbers (C) Email is another. A video call is another (D) Packets

3. **How a search decides what to show you What are the programs that follow links called?**
   (A) A bus is a service that runs on a road (B) Email is another. A video call is another (C) Crawlers (D) A network of networks

4. **The web is not the internet What is the web compared to?**
   (A) A network of networks (B) Using the numbers (C) A bus is a service that runs on a road (D) Ranking

5. **How a search decides what to show you What is deciding the order called?**
   (A) Packets (B) Ranking (C) Crawlers (D) A bus is a service that runs on a road

6. **The web is not the internet What is the internet, in this passage?**
   (A) Email is another. A video call is another (B) A network of networks (C) The network itself (D) Ranking

7. **How a message actually gets there What are the small parts called?**
   (A) Email is another. A video call is another (B) Packets (C) A network of networks (D) Crawlers

8. **What a network is What is the internet?**
   (A) Using the numbers (B) The network itself (C) A network of networks (D) Ranking

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How each one is worked, continued

THE WEB IS NOT THE INTERNET, CONTINUED



4. WORK IT OUT Why is the road and bus comparison a good one?

1. The bus needs the road. The road does not need the bus.
2. The web needs the internet, and the internet carried other things before the web existed and still does.
3. The passage says the road is not the bus.

Answer: **Because one carries the other, and the road would still be there without that particular bus**

HOW A SEARCH DECIDES WHAT TO SHOW YOU

1. What are the programs that follow links called?

1. The passage says programs called crawlers follow links from page to page.
2. So the answer is **crawlers**.

Answer: **Crawlers**

2. What is deciding the order called?

1. The passage says that decision is called ranking.
2. So the answer is **ranking**.

Answer: **Ranking**

3. Name two things ranking uses.

1. The passage says how many other pages link to a page, how well the words match, and how recently it changed.
2. Any two of those is right.

Answer: **How many other pages link to a page, how well the words match, and how recently it changed**

4. WORK IT OUT Why does being first in a search not mean being right?

1. Ranking uses links, word matching and how recent a page is.
2. None of those is a test of whether the page is correct.
3. The passage says it means a program judged it most likely to be what somebody like you wanted.

Answer: **Because a program judged it most likely to be wanted, which is not the same as judging it true**

HOW A MESSAGE ACTUALLY GETS THERE

1. What are the small parts called?

1. The passage says it is cut into small parts called packets.
2. So the answer is **packets**.

Answer: **Packets**

2. What three things does each packet carry?

1. The passage says the address it is going to, the address it came from, and its number in the order.
2. So that is the answer.

Answer: **The address it is going to, the address it came from, and its number in the order**

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SAMPLE PAGES

You have read a few pages. The pack is longer.

What you are holding is a short sample, taken from different parts of the pack so that you can see how a week is planned and what a child is actually asked to do, before you decide.

The complete pack, and the rest of the academic materials, are on our website: schemes of work for a parent teaching at home, and practice packs for the skills children get stuck on.

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Islamic and Academic Education

Members of the homeschool community do not buy these. If you have joined the community, the pack for the term you are working on is given to you at no cost.

Our Islamic Education classes are free. These packs are part of what pays the teachers who teach them.