Lesson 3: Transferring

Year 5 - On Sut his suite his on the Wirks - How is information shared?



Lesson 3: Transferring information

To recognise how information is transferred across the internet

- I can recognise that data is transferred using agreed methods
- I can explain that networked digital devices have an address
- I can explain that data is transferred over networks in packets



Can a system be described as many parts working together successfully?



How do you communicate with someone successfully?

Communicating

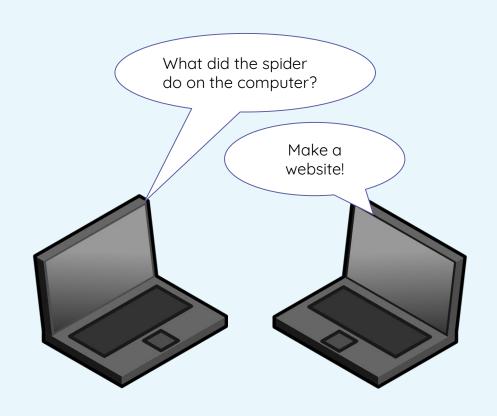
- A message
- From someone, to someone
 (e.g. a speaker and a listener)
- Taking turns
- Understanding (same language)



The things above are a **protocol**: an agreed way of doing something.

Communicating

- A message
- From someone, to someone
 (e.g. a speaker and a listener)
- Taking turns
- Understanding (same language)



Computers communicate using agreed **protocols**.

J Smith 256 High Bigton	256 High Street BI6 10N	J Smith BI6 10N	
J Smith 256 High Street	J Smith 256 High Street Bigton BI6 10N	J Smith High Street Bigton BI6 10N	

Which of these do you think will reach the person at their destination?

J Smith 256 High Bigton		256 High Street BIG 10N	J Smith BIG 10N	
J Smith 256 High S	treet	J Smith 256 High Street Bigton BI610N	J Smith High Street Bigton BI610N	

This one will definitely get to the person at their house. Some of the others **might** get there.

192.168.1.200

Computers use special addresses called IP addresses. This is an example of an IP address.

From: 192.168.1.200 To: 192.168.1.21

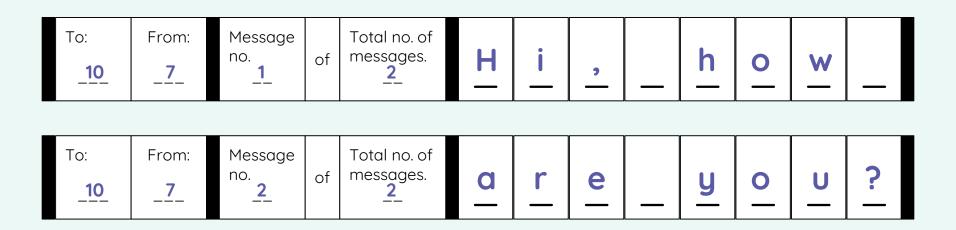
When a message is sent from one computer to another, both the destination and start address are included. Why do you think that might be?



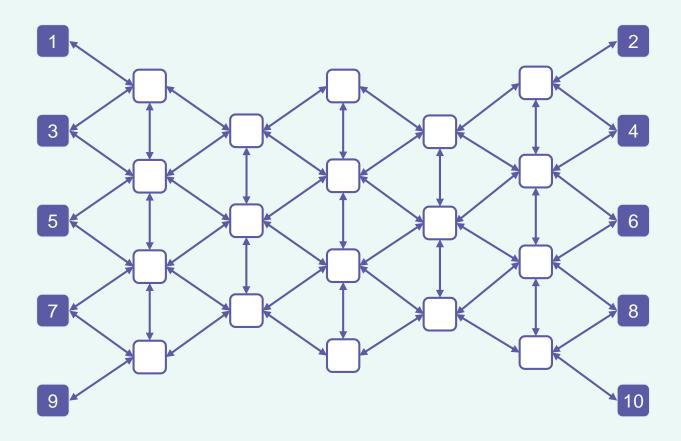
Think about the things you have learnt in this lesson as you watch this video.



Computers send messages in packets. This is an example.



Filled in, it might look like this.

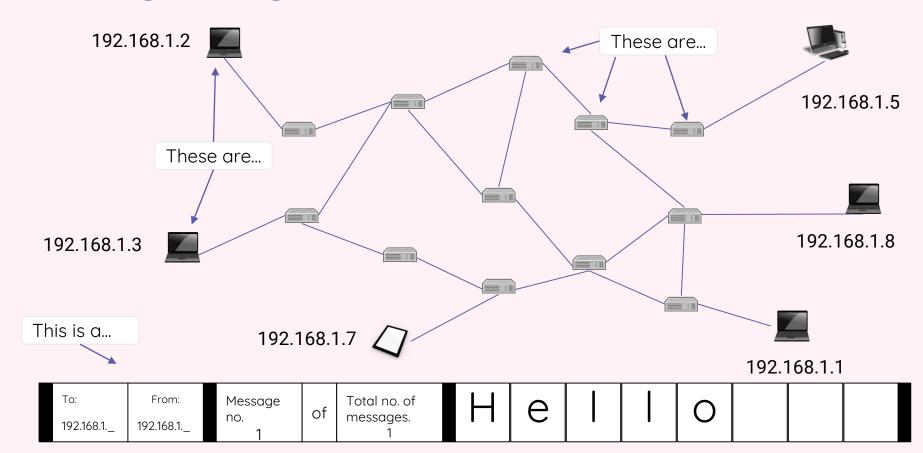


Reflection

• Did the system work?

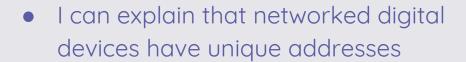
Did all message packets travel to their destination along the same route?

If the packet was not written correctly, would it get to its destination?



How confident are you? (1-3)

 I can recognise that data is transferred using agreed methods



 I can explain that data is transferred over networks in packets



2 - Unsure



1 - Not confident



Next lesson

In this lesson, you...

Looked at how information is transferred between systems and explored the important things needed for communication in systems to work

Next lesson, you will...

Look at how people can work together over large distances, and start some online group projects