Chapter 1

- 1. What is the main goal of interaction design?
- A) To create visually appealing products.
- B) To develop products that are easy, effective, and pleasurable to use from the users' perspective.
- C) To maximize profits for the company.
- D) To minimize the cost of product development.

Answer: B) To develop products that are easy, effective, and pleasurable to use from the users' perspective.

- 2. According to Alan Cooper, what is a common issue with today's software?
 - A) They are too expensive.
 - B) They are not visually appealing.
 - C) They lack basic interaction design principles.
 - D) They are not marketed effectively.

Answer: C) They lack basic interaction design principles.

- 3. What is one of the main differences between products designed with users in mind and those that are not?
 - A) The former are generally more expensive.
 - B) The former are generally easier and more enjoyable to use.
 - C) The latter are more visually appealing.
 - D) The latter are more technologically advanced.

Answer: B) The former are generally easier and more enjoyable to use.

- 4. Why does Alan Cooper believe it is "inexplicable and unforgivable" that many apps do not offer an "undo" option?
- A) Because it makes the apps less enjoyable to use.

- B) Because it violates a basic UX principle.
- C) Because it increases the cost of development.
- D) Because it is difficult to implement.

Answer: B) Because it violates a basic UX principle.

- 5. What is one way to rectify the situation of many new products lacking good user experiences?
 - A) By increasing the number of UX designers in industry.
 - B) By reducing the cost of product development.
- C) By understanding how to reduce negative aspects of the user experience while enhancing positive ones.
 - D) By focusing more on technological advancements.

Answer: C) By understanding how to reduce negative aspects of the user experience while enhancing positive ones.

- 6. What is the central concern of interaction design?
 - A) Maximizing profits for the company.
 - B) Creating visually appealing products.
 - C) Enhancing the user experience.
 - D) Minimizing the cost of product development.

Answer: C) Enhancing the user experience.

- 7. How does interaction design relate to human-computer interaction (HCI)?
 - A) It is the same as HCI.
 - B) It is a subfield of HCI.
 - C) It is unrelated to HCI.
 - D) It is more focused on hardware than HCI.

Answer: B) It is a subfield of HCI.

- 8. What is one of the goals of interaction design?
 - A) To make products as complex as possible.
 - B) To make products easy, effective, and pleasurable to use.
 - C) To maximize the number of features in a product.
 - D) To minimize the user's ability to customize the product.

Answer: B) To make products easy, effective, and pleasurable to use.

- 9. How does interaction design differ from other fields?
 - A) It focuses on hardware rather than software.
 - B) It focuses on maximizing profits rather than user experience.
 - C) It focuses on designing interactive products for human use.
 - D) It focuses on creating visually appealing products.

Answer: C) It focuses on designing interactive products for human use.

- 10. What is one example of a poorly designed interactive product?
 - A) A smartphone that is difficult to use.
 - B) A remote control with too many buttons.
 - C) A coffee machine that makes bad coffee.
 - D) A printer that is slow to print.

Answer: B) A remote control with too many buttons.

- 11. Why is it important for interactive products to be easy, effective, and pleasurable to use?
 - A) To maximize profits for the company.
 - B) To reduce the cost of product development.
 - C) To enhance the user experience.
 - D) To increase the number of features in the product.

Answer: C) To enhance the user experience.

- 12. What does Alan Cooper suggest is needed to ensure that all new products provide good user experiences?
 - A) More software engineers.
 - B) More interaction design principles.
 - C) A better understanding of user needs.
 - D) A focus on technological advancements.

Answer: C) A better understanding of user needs.

- 13. Why is it important for interactive products to be easy to learn and use in a real-world context?
 - A) To maximize profits for the company.
 - B) To reduce the cost of product development.
 - C) To enhance the user experience.
 - D) To increase the number of features in the product.

Answer: C) To enhance the user experience.

- 14. What is one way to reduce the negative aspects of the user experience while enhancing the positive ones?
 - A) By increasing the cost of product development.
 - B) By focusing more on technological advancements.
- C) By developing interactive products that are easy, effective, and pleasurable to use from the users' perspective.
 - D) By reducing the number of features in the product.

Answer: C) By developing interactive products that are easy, effective, and pleasurable to use from the users' perspective.

15. What is the main focus of interaction design?

- A) Maximizing profits for the company.
- B) Creating visually appealing products.
- C) Enhancing the user experience.
- D) Minimizing the cost of product development.

Answer: C) Enhancing the user experience.

- 16. What does Alan Cooper criticize about many new apps?
 - A) They are too expensive.
 - B) They lack basic interaction design principles.
 - C) They are not visually appealing.
 - D) They are not marketed effectively.

Answer: B) They lack basic interaction design principles.

- 17. Why is it important for interactive products to be enjoyable to use?
 - A) To maximize profits for the company.
 - B) To reduce the cost of product development.
 - C) To enhance the user experience.
 - D) To increase the number of features in the product.

Answer: C) To enhance the user experience.

- 18. How can the negative aspects of the user experience be reduced?
 - A) By increasing the cost of product development.
 - B) By focusing more on technological advancements.
- C) By developing interactive products that are easy, effective, and pleasurable to use from the users' perspective.
 - D) By reducing the number of features in the product.

Answer: C) By developing interactive products that are easy, effective, and pleasurable to use from the users' perspective.

19. What is the relationship between interaction design and human-computer interaction? A) They are unrelated. B) Interaction design is a subfield of human-computer interaction. C) Human-computer interaction is a subfield of interaction design. D) They are the same thing. Answer: B) Interaction design is a subfield of human-computer interaction. 20. What is one example of a well-designed interactive product? A) A smartphone that is difficult to use. B) A remote control with too many buttons. C) A coffee machine that makes good coffee. D) A printer that is slow to print. Answer: C) A coffee machine that makes good coffee 21. What is the main goal of interaction design? A) To create visually appealing products. B) To develop products that are easy, effective, and pleasurable to use from the users' perspective. C) To maximize profits for the company. D) To minimize the cost of product development. Answer: B) To develop products that are easy, effective, and pleasurable to use from the users' perspective. 22. According to Alan Cooper, what is a common issue with today's software? A) They are too expensive.

B) They are not visually appealing.

- C) They lack basic interaction design principles.
- D) They are not marketed effectively.

Answer: C) They lack basic interaction design principles.

- 23. What is one of the main differences between products designed with users in mind and those that are not?
 - A) The former are generally more expensive.
 - B) The former are generally easier and more enjoyable to use.
 - C) The latter are more visually appealing.
 - D) The latter are more technologically advanced.

Answer: B) The former are generally easier and more enjoyable to use.

- 24. Why does Alan Cooper believe it is "inexplicable and unforgivable" that many apps do not offer an "undo" option?
 - A) Because it makes the apps less enjoyable to use.
 - B) Because it violates a basic UX principle.
 - C) Because it increases the cost of development.
 - D) Because it is difficult to implement.

Answer: B) Because it violates a basic UX principle.

- 25. What is one way to rectify the situation of many new products lacking good user experiences?
 - A) By increasing the number of UX designers in industry.
 - B) By reducing the cost of product development.
- C) By understanding how to reduce negative aspects of the user experience while enhancing positive ones.
 - D) By focusing more on technological advancements.

Answer: C) By understanding how to reduce negative aspects of the user experience while enhancing positive ones.

20. What is the central concern of interaction design:		
A) Maximizing profits for the company.		
B) Creating visually appealing products.		
C) Enhancing the user experience.		
D) Minimizing the cost of product development.		
Answer: C) Enhancing the user experience.		
27. How does interaction design relate to human-computer interaction (HCI)?		
A) It is the same as HCI.		
B) It is a subfield of HCI.		
C) It is unrelated to HCI.		
D) It is more focused on hardware than HCI.		
Answer: B) It is a subfield of HCI.		
28. What is one of the goals of interaction design?		
A) To make products as complex as possible.		
B) To make products easy, effective, and pleasurable to use.		
C) To maximize the number of features in a product.		
D) To minimize the user's ability to customize the product.		
Answer: B) To make products easy, effective, and pleasurable to use.		
29. How does interaction design differ from other fields?		
A) It focuses on hardware rather than software.		

B) It focuses on maximizing profits rather than user experience.

C) It focuses on designing interactive products for human use.

D) It focuses on creating visually appealing products.

Answer: C) It focuses on designing interactive products for human use.

- 30. What is one example of a poorly designed interactive product?
 - A) A smartphone that is difficult to use.
 - B) A remote control with too many buttons.
 - C) A coffee machine that makes bad coffee.
 - D) A printer that is slow to print.

Answer: B) A remote control with too many buttons.

Chapter 2

- 1. What is one advantage of involving users in the development process of interactive products?
 - A) It reduces the cost of development.
 - B) It increases the complexity of the product.
- C) It ensures that the product is efficient, safe, and enjoyable to use.
- D) It speeds up the development process.

Answer: C) It ensures that the product is efficient, safe, and enjoyable to use.

- 2. What is the main principle of a user-centered approach to interaction design?
 - A) To prioritize the needs of the company over the needs of the user.
 - B) To prioritize the needs of the user over the needs of the company.
 - C) To maximize profits for the company.
 - D) To minimize the cost of product development.

Answer: B) To prioritize the needs of the user over the needs of the company.

- 3. What are the four basic activities of interaction design?
 - A) Discover, Define, Develop, Deliver.
 - B) Research, Sketch, Prototype, Test.

C) Sketch, Code, Test, Launch.
D) Discover, Define, Code, Launch.
Answer: A) Discover, Define, Develop, Deliver.
4. What is one way to start the process of designing a cloud-based service for sharing files?
A) By sketching how the interface might look.
B) By working out how the system architecture should be structured.
C) By asking users about their current experiences with sharing files.
D) By just starting to code.
Answer: C) By asking users about their current experiences with sharing files.
5. What is the philosophy underpinning interaction design?
A) User-centered design.
B) Company-centered design.
C) Profit-centered design.
D) Cost-centered design.
Answer: A) User-centered design.
6. How does interaction design relate to other fields of design?
A) It has no relation to other fields of design.
B) It follows a completely different approach from other fields of design.
C) It shares commonalities with other fields of design.
D) It is more focused on technological advancements than other fields of design.
Answer: C) It shares commonalities with other fields of design.
7. What is one of the phases in the double diamond of design?

A) Sketch.
B) Test.
C) Develop.
D) Code.
Answer: C) Develop.
8. How is interaction design different from graphic design or architectural design?
A) It focuses more on the aesthetic appeal of the product.
B) It focuses more on the functional aspects of the product.
C) It does not focus on the visual aspects of the product.
D) It does not involve users in the design process.
Answer: B) It focuses more on the functional aspects of the product.
9. What is the main goal of the interaction design process?
A) To create visually appealing products.
B) To maximize profits for the company.
C) To develop products that are efficient, safe, and enjoyable to use from the users' perspective.
D) To minimize the cost of product development.
Answer: C) To develop products that are efficient, safe, and enjoyable to use from the users' perspective.
10. How does interaction design typically begin?
A) By sketching ideas.
B) By developing a clear brief.
C) By doing user research.
D) By prototyping solutions.
Answer: C) By doing user research.

- 11. What is one important question about the interaction design process that is raised and answered in this chapter?
 - A) How can interaction design be integrated into other development lifecycles?
 - B) How can users be involved in development?
 - C) How can interaction designers generate designs?
 - D) How can the negative aspects of the user experience be reduced?

Answer: B) How can users be involved in development?

- 12. What is one advantage of the double diamond approach to design?
 - A) It focuses only on the functional aspects of the product.
 - B) It does not involve users in the design process.
 - C) It captures commonalities among different fields of design.
 - D) It reduces the complexity of the design process.

Answer: C) It captures commonalities among different fields of design.

- 13. What is one way to ensure that an interactive product is efficient, safe, and enjoyable to use?
 - A) By prioritizing the needs of the company over the needs of the user.
 - B) By involving users in the development process.
 - C) By minimizing the cost of product development.
 - D) By maximizing the number of features in the product.

Answer: B) By involving users in the development process.

- 14. What is the main focus of the interaction design process?
 - A) Maximizing profits for the company.
 - B) Creating visually appealing products.
- C) Developing products that are efficient, safe, and enjoyable to use from the users' perspective.

D) Minimizing the cost of product development.

Answer: C) Developing products that are efficient, safe, and enjoyable to use from the users' perspective.

- 15. How are the four phases of the double diamond of design iterated?
 - A) By repeating each phase multiple times.
 - B) By skipping some phases depending on the project.
 - C) By completing all phases sequentially.
 - D) By focusing only on one phase at a time.

Answer: A) By repeating each phase multiple times.

- 16. What is one advantage of involving users in the development process of interactive products?
 - A) It reduces the cost of development.
 - B) It increases the complexity of the product.
 - C) It ensures that the product is efficient, safe, and enjoyable to use.
 - D) It speeds up the development process.

Answer: C) It ensures that the product is efficient, safe, and enjoyable to use.

- 17. What is the main principle of a user-centered approach to interaction design?
 - A) To prioritize the needs of the company over the needs of the user.
 - B) To prioritize the needs of the user over the needs of the company.
 - C) To maximize profits for the company.
 - D) To minimize the cost of product development.

Answer: B) To prioritize the needs of the user over the needs of the company.

- 18. What are the four basic activities of interaction design?
 - A) Discover, Define, Develop, Deliver.
 - B) Research, Sketch, Prototype, Test.

C) Sketch, Code, Test, Launch.
D) Discover, Define, Code, Launch.
Answer: A) Discover, Define, Develop, Deliver.
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C) Profit-centered design.
D) Cost-centered design.
Answer: A) User-centered design.
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A) It has no relation to other fields of design.
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D) It is more focused on technological advancements than other fields of design.
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22. What is one of the phases in the double diamond of design?

A) Sketch.
B) Test.
C) Develop.
D) Code.
Answer: C) Develop.
23. How is interaction design different from graphic design or architectural design?
A) It focuses more on the aesthetic appeal of the product.
B) It focuses more on the functional aspects of the product.
C) It does not focus on the visual aspects of the product.
D) It does not involve users in the design process.
Answer: B) It focuses more on the functional aspects of the product.
24. What is the main goal of the interaction design process?
A) To create visually appealing products.
B) To maximize profits for the company.
C) To develop products that are efficient, safe, and enjoyable to use from the users' perspective.
D) To minimize the cost of product development.
Answer: C) To develop products that are efficient, safe, and enjoyable to use from the users' perspective.
25. How does interaction design typically begin?
A) By sketching ideas.
B) By developing a clear brief.
C) By doing user research.
D) By prototyping solutions.
Answer: C) By doing user research.

- 26. What is one important question about the interaction design process that is raised and answered in this chapter?
 - A) How can interaction design be integrated into other development lifecycles?
 - B) How can users be involved in development?
 - C) How can interaction designers generate designs?
 - D) How can the negative aspects of the user experience be reduced?

Answer: B) How can users be involved in development?

- 27. What is one advantage of the double diamond approach to design?
 - A) It focuses only on the functional aspects of the product.
 - B) It does not involve users in the design process.
 - C) It captures commonalities among different fields of design.
 - D) It reduces the complexity of the design process.

Answer: C) It captures commonalities among different fields of design.

- 28. What is one way to ensure that an interactive product is efficient, safe, and enjoyable to use?
 - A) By prioritizing the needs of the company over the needs of the user.
 - B) By involving users in the development process.
 - C) By minimizing the cost of product development.
 - D) By maximizing the number of features in the product.

Answer: B) By involving users in the development process.

- 29. What is the main focus of the interaction design process?
 - A) Maximizing profits for the company.
 - B) Creating visually appealing products.
- C) Developing products that are efficient, safe, and enjoyable to use from the users' perspective.

D) Minimizing the cost of product development.

Answer: C) Developing products that are efficient, safe, and enjoyable to use from the users' perspective.

- 30. How are the four phases of the double diamond of design iterated?
 - A) By repeating each phase multiple times.
 - B) By skipping some phases depending on the project.
 - C) By completing all phases sequentially.
 - D) By focusing only on one phase at a time.

Answer: A) By repeating each phase multiple times.

Chapter 3

- 1. What is the main goal of conceptualizing interaction in design projects?
- A) To create a proof of concept.
- B) To explore solutions.
- C) To define the area of the project.
- D) All of the above.

Answer: D) All of the above.

- 2. Why is it important to conceptualize new ideas in terms of what the proposed product will do?
 - A) To create a clear proof of concept.
 - B) To scrutinize the feasibility and desirability of the ideas.
 - C) To articulate the basic building blocks of the product.
 - D) To ensure the product is technologically advanced.

Answer: B) To scrutinize the feasibility and desirability of the ideas.

3. What is one reason for conceptualizing new ideas in design projects?
A) To recruit good wait staff.
B) To entertain customers with gimmicks.
C) To address actual problems.
D) To articulate the benefits of the proposed solution.
Answer: C) To address actual problems.
4. What is an example of a research question that might arise when designing a voice-assisted mobile robot for a restaurant?
A) How would the robot need to move to appear to be talking?
B) What color should the robot be?
C) How many orders can the robot take per hour?
D) What is the robot's favorite food?
Answer: A) How would the robot need to move to appear to be talking?
5. What is one way to transform blue-sky thinking into more concrete models in the early ideation process?
A) By asking questions and reconsidering assumptions.
B) By recruiting a large team of designers.
C) By focusing on wishful thinking.
D) By ignoring potential limitations.
Answer: A) By asking questions and reconsidering assumptions.
6. What is the purpose of generating a set of research questions in the early stages of a design project?
A) To prove the feasibility of the project.
B) To address actual problems.
C) To explore the potential of the proposed solution.

D) To inform and support nascent ideas.

Answer: C) To explore the potential of the proposed solution.

- 7. How can conceptualizing new ideas lead to better clarity from a UX perspective?
 - A) By focusing on the technology.
 - B) By explaining how users will understand and interact with the product.
 - C) By minimizing the functionality of the product.
 - D) By prioritizing the needs of the company.

Answer: B) By explaining how users will understand and interact with the product.

- 8. What is one aspect of the early ideation process in design projects?
 - A) Focusing on one's assumptions.
 - B) Generating a set of research questions.
 - C) Expressing ideas as a set of concepts.
 - D) Avoiding asking questions.

Answer: C) Expressing ideas as a set of concepts.

- 9. What is one advantage of showing where novel ideas came from in a design project?
 - A) It ensures the project is technologically advanced.
- B) It allows for better articulation of the basic building blocks.
- C) It helps transform wishful thinking into concrete models.
- D) It provides sources of inspiration and supports nascent ideas.

Answer: D) It provides sources of inspiration and supports nascent ideas.

- 10. What is one consideration when designing a voice-assisted mobile robot for a restaurant?
 - A) The robot's favorite food.
 - B) How the robot would need to move to appear to be talking.

- C) The color of the robot.
- D) The number of orders the robot can take per hour.

Answer: B) How the robot would need to move to appear to be talking.

- 11. How does conceptualizing new ideas in design projects relate to the double diamond framework?
 - A) It is the final pass to define the area.
 - B) It is an initial pass to help define the area and explore solutions.
 - C) It is unrelated to the double diamond framework.
 - D) It is a separate process from the double diamond framework.

Answer: B) It is an initial pass to help define the area and explore solutions.

- 12. What is the purpose of conceptualizing ideas in design projects?
 - A) To focus on fuzzy ideas and assumptions.
 - B) To explore the potential benefits of the proposed product.
 - C) To articulate the basic building blocks of the product.
 - D) To scrutinize the feasibility of the proposed product.

Answer: D) To scrutinize the feasibility of the proposed product.

- 13. What is one way to ensure that designers can begin articulating the basic building blocks when developing a product?
 - A) By focusing on the technology.
 - B) By creating a clear proof of concept.
 - C) By conceptualizing the ideas in terms of what the proposed product will do.
 - D) By minimizing the functionality of the product.

Answer: C) By conceptualizing the ideas in terms of what the proposed product will do.

- 14. How does conceptualizing new ideas help transform wishful thinking into more concrete models?
 - A) By recruiting a large team of designers.
 - B) By ignoring potential limitations.
 - C) By articulating the benefits of the proposed solution.
 - D) By asking questions, reconsidering assumptions, and articulating concerns.

Answer: D) By asking questions, reconsidering assumptions, and articulating concerns.

- 15. What is one reason for conceptualizing new ideas as part of a design project?
 - A) To develop a clear brief.
 - B) To explore solutions.
 - C) To define the area of the project.
 - D) To recruit good wait staff.

Answer: B) To explore solutions.

- 16. What is one advantage of conceptualizing new ideas in terms of what the proposed product will do?
 - A) It allows for better articulation of the basic building blocks.
 - B) It ensures the project is technologically advanced.
 - C) It minimizes the functionality of the product.
 - D) It focuses on fuzzy ideas and assumptions.

Answer: A) It allows for better articulation of the basic building blocks.

- 17. How does conceptualizing new ideas lead to better clarity from a UX perspective?
 - A) By explaining how users will understand and interact with the product.
 - B) By focusing on the technology.
 - C) By prioritizing the needs of the company.
 - D) By minimizing the functionality of the product.

Answer: A) By explaining how users will understand and interact with the product.

18. What is one aspect of the early ideation process in design projects?
A) Focusing on one's assumptions.
B) Generating a set of research questions.
C) Expressing ideas as a set of concepts.
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C) It helps transform wishful thinking into concrete models.
D) It focuses on fuzzy ideas and assumptions.
Answer: C) It helps transform wishful thinking into concrete models. 20. What is one consideration when designing a voice-assisted mobile robot for a restaurant?
A) The robot's favorite food.
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C) The color of the robot.
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Answer: B) How the robot would need to move to appear to be talking.
21. How does conceptualizing new ideas in design projects relate to the double diamond framework?
A) It is the final pass to define the area.
B) It is an initial pass to help define the area and explore solutions.
C) It is unrelated to the double diamond framework.

D) It is a separate process from the double diamond framework.

Answer: B) It is an initial pass to help define the area and explore solutions.

- 22. What is the purpose of conceptualizing ideas in design projects?
 - A) To focus on fuzzy ideas and assumptions.
 - B) To explore the potential benefits of the proposed product.
 - C) To articulate the basic building blocks of the product.
 - D) To scrutinize the feasibility of the proposed product.

Answer: D) To scrutinize the feasibility of the proposed product.

- 23. What is one way to ensure that designers can begin articulating the basic building blocks when developing a product?
 - A) By focusing on the technology.
 - B) By creating a clear proof of concept.
 - C) By conceptualizing the ideas in terms of what the proposed product will do.
 - D) By minimizing the functionality of the product.

Answer: C) By conceptualizing the ideas in terms of what the proposed product will do.

- 24. How does conceptualizing new ideas help transform wishful thinking into more concrete models?
 - A) By recruiting a large team of designers.
 - B) By ignoring potential limitations.
 - C) By articulating the benefits of the proposed solution.
 - D) By asking questions, reconsidering assumptions, and articulating concerns.

Answer: D) By asking questions, reconsidering assumptions, and articulating concerns.

- 25. What is one reason for conceptualizing new ideas as part of a design project?
 - A) To develop a clear brief.
 - B) To explore solutions.

C) To define the area of the project.
D) To recruit good wait staff.
Answer: B) To explore solutions.
26. What is one important aspect of conceptualizing new ideas in design projects?
A) Focusing only on fuzzy ideas.
B) Ignoring potential limitations.
C) Articulating concerns and standpoints.
D) Minimizing the number of research questions.
Answer: C) Articulating concerns and standpoints.
27. How can conceptualizing new ideas lead to better clarity from a UX perspective?
A) By focusing on the technology.
B) By explaining how users will understand and interact with the product.
C) By minimizing the functionality of the product.
D) By prioritizing the needs of the company.
Answer: B) By explaining how users will understand and interact with the product.
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Answer: B) Expressing ideas as a set of concepts.
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A) It ensures the project is technologically advanced.

- B) It helps transform wishful thinking into concrete models.
- C) It focuses on fuzzy ideas and assumptions.
- D) It allows for better articulation of the basic building blocks.

Answer: B) It helps transform wishful thinking into concrete models.

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 - A) The robot's favorite food.
 - B) How the robot would need to move to appear to be talking.
 - C) The color of the robot.
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Answer: B) How the robot would need to move to appear to be talking.