Name _____ Date _____

AI · Practice paper

AI Practice Paper (1)

Answer every question. Show your working where you can. Mark it out of 97.

Score: _____ / 97

★ 0 to 47 keep practising ★★ 48 to 75 good work ★★★ 76 to 97 super!





AI in the clinic

AI can help doctors with X-rays, medicine reminders and records. The doctor always checks and decides.

1. Who does it? Circle. (4 marks)

1. Look at many X-rays quickly	AI can help	a person does it
2. Decide which medicine a patient needs	AI can help	a person does it
3. Remind a patient about medicine times	AI can help	a person does it
4. Comfort a scared child	AI can help	a person does it

2. True or false? Circle. (2 marks)

1. Health records are private.	True	False
2. AI always decides by itself, with no doctor.	True	False

X-rays **records** **checks**

3. Fill in. (3 marks)

1. AI can look at _____ quickly.
2. AI can keep _____ tidy.
3. The doctor always _____ and decides.

Name _____ Date _____

AI · Practice paper

AI Practice Paper (2)

AI can help farmers grow our food.

4. Match the helper to its job. Write the letter in the box. (4 marks)

☐	1. soil sensor	a)	spots sick plants
☐	2. camera	b)	measures water in the soil
☐	3. weather app	c)	makes the decisions
☐	4. farmer	d)	predicts rain

5. Good idea or not? Circle. (3 marks)

1. Water the crops when the sensor says the soil is dry.	good idea	not a good idea
2. Spray every plant every day, even healthy ones.	good idea	not a good idea
3. Check the weather app before cutting the wheat.	good idea	not a good idea

6. Farm maths. (3 marks)

1. The soil sensor read 30 in the morning and 20 at night. It went down by _____.

2. A field has 4 rows of 5 plants. There are _____ plants.

3. The camera found 3 sick plants in one field and 4 in another. That is _____ sick plants.

Name _____ Date _____

AI · Practice paper

AI Practice Paper (3)

A model learns from examples.



Training a model

A model is the part of AI that learns. We train it with many labelled examples. Then we test it with new examples it has never seen.

7. Number the steps 1 to 4. (4 marks)

1. Test it with new examples. ____
2. Collect many examples. ____
3. Add labels, like cat or dog. ____
4. Add more examples if it makes mistakes. ____

8. Circle the right answer. (3 marks)

1. A model learns from … examples magic
2. To test a model we use examples it … has seen before has never seen
3. If the model makes mistakes, we … add more examples give up

9. Test results. (2 marks)

1. A model looked at 10 pictures and got 8 right. It got ____ wrong.
2. A model looked at 20 pictures and got 5 wrong. It got ____ right.

Name _____ Date _____

AI · Practice paper

AI Practice Paper (4)

Fair AI and designing a helper. Keep going: this paper has ten pages.

10. Fair or unfair? Circle. (3 marks)

1. A face app learned only from grown-ups, so it does not work for children. fair unfair

2. Everyone gets a turn on the swing. fair unfair

3. A voice helper understands both Urdu and English speakers. fair unfair

problem **ideas** **model** **try**

11. The design steps. Fill in. (4 marks)

1. A designer starts with a _____.

2. They draw _____ and choose the best one.

3. They make a _____.

4. People _____ it and say what to make better.

12. Plan an AI helper. (2 marks)

My AI helper would help _____ by _____ .

Name _____ Date _____

AI · Practice paper

AI Practice Paper (5)

AI can help in a clinic, but people care for patients.

13. Who does it best? Circle. (4 marks)

1.  checks hundreds of X-rays for spots — AI helper / doctor or nurse

2.  holds a scared child's hand — AI helper / doctor or nurse

3.  beeps at medicine time — AI helper / doctor or nurse

4.  listens to your heartbeat and talks to you — AI helper / doctor or nurse

14. Private or OK to share? Circle. (3 marks)

1. my X-ray picture — private / OK to share
2. my medicine list — private / OK to share
3. my favourite healthy food — private / OK to share

15. Clinic maths. (3 marks)

1. The AI checked 40 X-rays in the morning and 35 after lunch. It checked ____ X-rays.

2. 12 patients came. 5 have gone home. ____ patients are still waiting.

3. A reminder beeps 3 times a day. In 4 days it beeps ____ times.

Name _____ Date _____

AI · Practice paper

AI Practice Paper (6)

AI gives farmers useful information.



Smart farming

Sensors in the soil measure water. Cameras spot sick plants. Apps predict the weather. The farmer still makes the decisions.

16. What should the farmer do? Circle. (4 marks)

1. The soil sensor says the soil is very dry. — water the crop / do nothing
2. The weather app says heavy rain tomorrow. — water the field today / wait and save water
3. The camera spots spots on 3 leaves. — check those plants / burn the field
4. The app is not sure if a plant is sick. — trust it anyway / look with your own eyes

17. Read the soil sensor. Water when the number is under 20. (4 marks)

1. Field A: 35 → water? _____
2. Field B: 12 → water? _____
3. Field C: 19 → water? _____
4. Field D: 20 → water? _____

18. Good idea or not? Circle. (3 marks)

1. A camera spots a sick plant early. — good idea / not a good idea
2. The farmer never checks the crops himself. — good idea / not a good idea
3. A drone sprays water only where the soil is dry. — good idea / not a good idea

Name _____ Date _____

AI · Practice paper

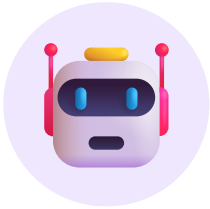
AI Practice Paper (7)

A model learns from labelled examples.

Collect **labels** **Train** **Test**

19. Steps to train a model. Fill in. (4 marks)





_____ examples Add _____ _____ the model



_____ it with new examples

20. Good training data or not? Circle. (3 marks)

1. 1000 cat and dog photos, each with the right label	good	not good
2. only 3 photos of cats	good	not good
3. dog photos labelled cat	good	not good

21. Be the model. Rule: fruits are yes, toys are no. Write yes or no. (4 marks)

1. banana: _____
2. teddy bear: _____
3. mango: _____
4. kite: _____

Name _____ Date _____

AI · Practice paper

AI Practice Paper (8)

A model can make mistakes. We test it and fix it.

22. Test results. (4 marks)

1. A model was tested on 10 bird photos. It got 7 right. It got ____ wrong.

2. It was tested on 12 cat photos and got 2 wrong. It got ____ right.

3. After more training it got 9 of 10 right. That is ____ more than 7.

4. It got 15 right and 5 wrong. It looked at ____ photos.

23. The model calls every white animal a cat. Why? Circle. (2 marks)

1. Its training photos were all of ... white cats / many colours of cats

2. To fix it we should add ... more white cats / cats of many colours

24. True or false? Circle. (3 marks)

1. A model can learn from mistakes if we add more examples. True / False

2. We test a model with the same photos it learned from. True / False

3. Labels tell the model what each example is. True / False

25. Name two things you could teach a model to sort. (2 marks)

1. _____ 2. _____

Name _____ Date _____

AI · Practice paper

AI Practice Paper (9)

Fair AI works for everyone. Designers make helpers useful, safe and kind.




Fair and kind AI

Fair means everyone gets the same chance. People must check that AI works for every child, every family and every place.

26. Who is missing? Circle the fix. (3 marks)

1. A voice helper only learned from grown-ups.

- add children's voices
- add more grown-ups

2. A face app only learned from people with short hair.

- add people with long hair
- remove it from shops

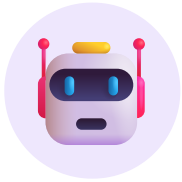
3. A map app only knows big cities.

- add villages too
- only use it in cities

problem **ideas** **model** **try**

27. The design steps. Fill in. (4 marks)





Find a _____ Draw _____ Make a _____



People _____ it

Name _____ Date _____

AI · Practice paper

AI Practice Paper (10)

Think carefully. Add up your marks from all ten pages.

28. True or false? Circle. (5 marks)

1. AI can help doctors look at X-rays. True False
2. A soil sensor can predict the weather. True False
3. A model needs labelled examples to learn. True False
4. AI is always fair. True False
5. A designer starts with a problem. True False

29. Spot the mistake. Write the right word. (3 marks)

1. The AI decides the medicine, not the doctor. → right person: _____
2. A camera measures water in the soil. → right tool: _____
3. We test a model with photos it has seen. → it should be photos it has _____ seen

30. Ali wants an AI helper for his plants.
Write two things it should do. (2 marks)

1. _____
2. _____

How did I do?

I can _____ . I will practise _____ .

ANSWER KEY

Name _____ Date _____

AI · Practice paper

AI Practice Paper (1)

Answer every question. Show your working where you can. Mark it out of 97.

Score: _____ / 97

★ 0 to 47 keep practising ★★ 48 to 75 good work ★★★ 76 to 97 super!





AI in the clinic

AI can help doctors with X-rays, medicine reminders and records. The doctor always checks and decides.

1. Who does it? Circle. (4 marks)

1. Look at many X-rays quickly — **AI can help** / a person does it
2. Decide which medicine a patient needs — AI can help / **a person does it**
3. Remind a patient about medicine times — **AI can help** / a person does it
4. Comfort a scared child — AI can help / **a person does it**

2. True or false? Circle. (2 marks)

1. Health records are private. — **True** / False
2. AI always decides by itself, with no doctor. — True / **False**

X-rays **records** **checks**

3. Fill in. (3 marks)

1. AI can look at **X-rays** quickly.
2. AI can keep **records** tidy.
3. The doctor always **checks** and decides.

ANSWER KEY

Name _____ Date _____

AI · Practice paper

AI Practice Paper (2)

AI can help farmers grow our food.

4. Match the helper to its job. Write the letter in the box. (4 marks)

b	1. soil sensor	a)	spots sick plants
a	2. camera	b)	measures water in the soil
d	3. weather app	c)	makes the decisions
c	4. farmer	d)	predicts rain

5. Good idea or not? Circle. (3 marks)

1. Water the crops when the sensor says the soil is dry.	**good idea**	not a good idea
2. Spray every plant every day, even healthy ones.	good idea	**not a good idea**
3. Check the weather app before cutting the wheat.	**good idea**	not a good idea

6. Farm maths. (3 marks)

1. The soil sensor read 30 in the morning and 20 at night. It went down by **10** .

2. A field has 4 rows of 5 plants. There are **20** plants.

3. The camera found 3 sick plants in one field and 4 in another. That is **7** sick plants.

ANSWER KEY

Name _____ Date _____

AI · Practice paper

AI Practice Paper (3)

A model learns from examples.



Training a model

A model is the part of AI that learns. We train it with many labelled examples. Then we test it with new examples it has never seen.

7. Number the steps 1 to 4. (4 marks)

1. Test it with new examples. **3**
2. Collect many examples. **1**
3. Add labels, like cat or dog. **2**
4. Add more examples if it makes mistakes. **4**

8. Circle the right answer. (3 marks)

1. A model learns from … **examples** / magic
2. To test a model we use examples it … has seen before / **has never seen**
3. If the model makes mistakes, we … **add more examples** / give up

9. Test results. (2 marks)

1. A model looked at 10 pictures and got 8 right. It got **2** wrong.
2. A model looked at 20 pictures and got 5 wrong. It got **15** right.

ANSWER KEY

Name _____ Date _____

AI · Practice paper

AI Practice Paper (4)

Fair AI and designing a helper. Keep going: this paper has ten pages.

10. Fair or unfair? Circle. (3 marks)

1. A face app learned only from grown-ups, so it does not work for children. — fair / **unfair**

2. Everyone gets a turn on the swing. — **fair** / unfair

3. A voice helper understands both Urdu and English speakers. — **fair** / unfair

problem **ideas** **model** **try**

11. The design steps. Fill in. (4 marks)

1. A designer starts with a **problem** .
2. They draw **ideas** and choose the best one.
3. They make a **model** .
4. People **try** it and say what to make better.

12. Plan an AI helper. (2 marks)

My AI helper would help _____ by _____ .

Answers will vary.

ANSWER KEY

Name _____ Date _____

AI · Practice paper

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2. 12 patients came. 5 have gone home. **7** patients are still waiting.

3. A reminder beeps 3 times a day. In 4 days it beeps **12** times.

ANSWER KEY

Name _____ Date _____

AI · Practice paper

AI Practice Paper (6)

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Sensors in the soil measure water. Cameras spot sick plants. Apps predict the weather. The farmer still makes the decisions.

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AI · Practice paper

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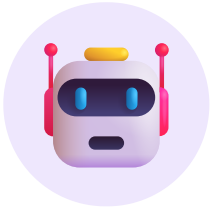

Collect examples Add **labels** **Train** the model



Test it with new examples

20. Good training data or not? Circle. (3 marks)

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ANSWER KEY

Name _____ Date _____

AI · Practice paper

AI Practice Paper (8)

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25. Name two things you could teach a model to sort. (2 marks)

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ANSWER KEY

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problem **ideas** **model** **try**

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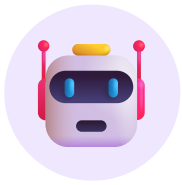


Find a **problem** Draw **ideas** Make a **model**

People **try** it

ANSWER KEY

Name _____ Date _____

AI · Practice paper

AI Practice Paper (10)

Think carefully. Add up your marks from all ten pages.

28. True or false? Circle. (5 marks)

1. AI can help doctors look at X-rays. **True** False
2. A soil sensor can predict the weather. True **False**
3. A model needs labelled examples to learn. **True** False
4. AI is always fair. True **False**
5. A designer starts with a problem. **True** False

29. Spot the mistake. Write the right word. (3 marks)

1. The AI decides the medicine, not the doctor. → right person: **doctor**
2. A camera measures water in the soil. → right tool: **sensor**
3. We test a model with photos it has seen. → it should be photos it has **never** seen

30. Ali wants an AI helper for his plants.
Write two things it should do. (2 marks)

1. _____
2. _____

Answers will vary.

How did I do?

I can _____ . I will practise _____ .

Answers will vary.