Name _____ Date _____

AI · Machines learn from patterns

What Is a Pattern?

Read the big idea. Then fill in what comes next.



Patterns

A pattern is something that repeats. AI learns by finding patterns in lots of examples, then uses them to guess what comes next.

1. red, blue, red, blue, _____

2. 1, 2, 1, 2, _____

3. sun, moon, sun, moon, _____

4. 2, 4, 6, 8, _____

Name _____ Date _____

AI · Machines learn from patterns

Learning From Examples

Look at the examples. Circle the right group.

Examples of fruit: apple, mango, banana. Examples of toys: ball, kite, doll.

1. orange — fruit / toy
2. car — fruit / toy
3. grapes — fruit / toy
4. teddy — fruit / toy
5. guava — fruit / toy

Name _____ Date _____

AI · Machines learn from patterns

Teach the Robot

Help the robot learn. Fill in the rule.

Robo saw these animals: cat, dog, cow, goat. All of them have 4 legs.

1. The pattern is: they all have _____ legs.

2. Robo sees a hen. A hen has _____ legs.

3. Will Robo think a hen is like the others? _____

More free worksheets **littletakhti.netlify.app**

Name _____ Date _____

AI · Machines learn from patterns

Guess What Comes Next

Circle what comes next.

1. Monday, Tuesday, Wednesday, ... Thursday Sunday

2. A, B, C, D, ... E Z

3. 5, 10, 15, 20, ... 25 21

4. morning, afternoon, evening, ... night breakfast

More free worksheets **littletakhti.netlify.app**

Name _____ Date _____

AI · Machines learn from patterns

My Pattern

Make your own pattern and ask someone to guess what comes next.

Draw your pattern

My pattern repeats: _____

What comes next? _____

More free worksheets **littletakhti.netlify.app**

Name _____ Date _____

AI · Machines learn from patterns

Shape Patterns

Fill in what comes next.

1. circle, square, circle, square, _____

2. big, small, big, small, _____

3. up, down, up, down, _____

4. clap, stamp, clap, stamp, _____

More free worksheets **littletakhti.netlify.app**

Name _____ Date _____

AI · Machines learn from patterns

Odd One Out

Circle the one that does not fit the pattern.

1. cat, dog, cow, chair — cow, chair

2. 2, 4, 6, 9 — 6, 9

3. apple, mango, ball, banana — ball, banana

4. red, blue, green, Monday — green, Monday

More free worksheets **littletakhti.netlify.app**

Name _____ Date _____

AI · Machines learn from patterns

Sort by a Rule

Write each word in the right box.

bird | fish | bee | cow | butterfly | dog

can fly	cannot fly

More free worksheets **littletakhti.netlify.app**

Name _____ Date _____

AI · Machines learn from patterns

Weather Patterns

Use the pattern to guess.

For a week, dark clouds came every afternoon and then it rained.

1. Today at 3 o'clock there are dark clouds. It will probably _____.
2. The pattern helps us _____ what comes next.
3. Our guess could still be _____.

More free worksheets **littletakhti.netlify.app**

Name _____ Date _____

AI · Machines learn from patterns

Pattern Puzzle

Solve each pattern problem.

1. Ali wears blue, white, blue, white. On day 5 he wears _____.

2. A tower goes 1 block, 2 blocks, 3 blocks. Next it has _____ blocks.

3. A robot sees 5 cats with whiskers. It learns that cats have _____.

More free worksheets **littletakhti.netlify.app**

ANSWER KEY

Name _____ Date _____

AI · Machines learn from patterns

What Is a Pattern?

Read the big idea. Then fill in what comes next.



Patterns

A pattern is something that repeats. AI learns by finding patterns in lots of examples, then uses them to guess what comes next.

1. red, blue, red, blue, **red**

2. 1, 2, 1, 2, **1**

3. sun, moon, sun, moon, **sun**

4. 2, 4, 6, 8, **10**

More free worksheets **littletakhti.netlify.app**

ANSWER KEY

Name _____ Date _____

AI · Machines learn from patterns

Learning From Examples

Look at the examples. Circle the right group.

Examples of fruit: apple, mango, banana. Examples of toys: ball, kite, doll.

1. orange — **fruit** / toy
2. car — fruit / **toy**
3. grapes — **fruit** / toy
4. teddy — fruit / **toy**
5. guava — **fruit** / toy

ANSWER KEY

Name _____ Date _____

AI · Machines learn from patterns

Teach the Robot

Help the robot learn. Fill in the rule.

Robo saw these animals: cat, dog, cow, goat. All of them have 4 legs.

1. The pattern is: they all have **4** legs.
2. Robo sees a hen. A hen has **2** legs.
3. Will Robo think a hen is like the others? **no**

ANSWER KEY

Name _____ Date _____

AI · Machines learn from patterns

Guess What Comes Next

Circle what comes next.

1. Monday, Tuesday, Wednesday, ...

Thursday Sunday

2. A, B, C, D, ...

E Z

3. 5, 10, 15, 20, ...

25 21

4. morning, afternoon, evening, ...

night breakfast

More free worksheets **littletakhti.netlify.app**

ANSWER KEY

Name _____ Date _____

AI · Machines learn from patterns

My Pattern

Make your own pattern and ask someone to guess what comes next.

Draw your pattern

Drawings will vary.

My pattern repeats: _____

What comes next? _____

Answers will vary.

ANSWER KEY

Name _____ Date _____

AI · Machines learn from patterns

Shape Patterns

Fill in what comes next.

1. circle, square, circle, square, **circle**
2. big, small, big, small, **big**
3. up, down, up, down, **up**
4. clap, stamp, clap, stamp, **clap**

ANSWER KEY

Name _____ Date _____

AI · Machines learn from patterns

Odd One Out

Circle the one that does not fit the pattern.

1. cat, dog, cow, chair — cow, **chair**

2. 2, 4, 6, 9 — 6, **9**

3. apple, mango, ball, banana — **ball**, banana

4. red, blue, green, Monday — green, **Monday**

More free worksheets **littletakhti.netlify.app**

ANSWER KEY

Name _____ Date _____

AI · Machines learn from patterns

Sort by a Rule

Write each word in the right box.

bird | fish | bee | cow | butterfly | dog

can fly	cannot fly
bird	fish
bee	cow
butterfly	dog

More free worksheets **littletakhti.netlify.app**

ANSWER KEY

Name _____ Date _____

AI · Machines learn from patterns

Weather Patterns

Use the pattern to guess.

For a week, dark clouds came every afternoon and then it rained.

1. Today at 3 o'clock there are dark clouds. It will probably **rain** .
2. The pattern helps us **guess** what comes next.
3. Our guess could still be **wrong** .

ANSWER KEY

Name _____ Date _____

AI · Machines learn from patterns

Pattern Puzzle

Solve each pattern problem.

1. Ali wears blue, white, blue, white. On day 5 he wears **blue** .

2. A tower goes 1 block, 2 blocks, 3 blocks. Next it has **4** blocks.

3. A robot sees 5 cats with whiskers. It learns that cats have **whiskers** .