



Name \_\_\_\_\_ Today's Date \_\_\_\_\_

## Poultry Ag Mag - Math - Creating Patterns

**Directions:** Create a pattern following the directions given. Give 8 numbers for each pattern.

1. Start with the number 4 and add 3 to each number.

Pattern: 4, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 25

2. Start with the number 70 and subtract 6 from each number.

Pattern: 70, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

3. Start with the number 15 and add consecutive integers (starting with 1) to each number.

Pattern: 15, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 25, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

4. Start with the number 143 and subtract consecutive odd integers (starting with 1) from each number.

Pattern: 143, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 118, \_\_\_\_\_, \_\_\_\_\_

5. Start with the number 33 and add consecutive even integers (starting with 2) to each number.

Pattern: 33, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 89

6. Start with the number 16, add 5 to get the next number, subtract 2 for the next result, repeat.

Pattern: 16, \_\_\_\_\_, \_\_\_\_\_, 24, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

7. Start with the number 93 and subtract decreasing consecutive integers (starting with 10) from each number.

Pattern: 93, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 48, \_\_\_\_\_

## Poultry Ag Mag - Reading Passage

### *All About Eggs*

From *The Old Farmer's Almanac for Kids*

A female chicken is a hen. A male chicken is a rooster. Their offspring are called chicks. When a chick is six months old, it begins producing eggs for us to eat. Then it is called a hen or a layer.

It takes a hen about a day to produce an egg, and every egg begins as a yolk. First, a hen wraps the yolk in the white, called albumen. That takes about three hours. She spends the next 20 hours making the shell, which will be brown or white, depending on their breed. When the shell is finished, she lays the egg, and within about a half hour, she begins again with another yolk.

Chicken feed contains pigment that makes yolks yellow. A hen stores the pigment in her beak, legs, and toes—sometimes even in her ear lobes—until she needs it for the yolks. It's rare, but not unusual, for a hen to produce an egg with no yolk at all. The record for the number of yolks in a single egg is nine.

Good egg-layers produce 270 to 300 eggs per year. The world egg-laying record, set in 1979, is 371 eggs in 364 days. That's 1.02 eggs per day.

Eggs look solid, but they are full of holes. Every eggshell has 6,000 to 8,000 pores, which allow oxygen to pass in and carbon dioxide to pass out as the baby chick develops inside.

Eggs seem fragile, but they are surprisingly strong. People have been testing that strength for years. In 1970, a firefighter climbed to the top of a 70-foot-high ladder and dropped 10 eggs. Only 3 broke. On August 22, 1994, David Donoghue dropped eggs onto a golf course from a helicopter 700 feet in the air. The eggs survived, and Donoghue holds the world egg-dropping record. On November 12, 1978, Johnie Dell Foley threw an egg 323 feet, 2 inches to his cousin Keith Thomas, who caught it intact. Now the cousins hold the world egg-throwing record.

Want to see for yourself how strong an egg is? Hold one between your palms, end to end, and interlace your fingers over the top. Now tighten your grip by squeezing your hands together. If your egg breaks, scramble it!

## Poultry Ag Mag - Reading Passage

**Directions:** Read each question and choose the best answer.

1

A hen takes about how many days to produce an egg?

- A 1
- B 3
- C 4
- D 6

2

What makes the yolk of an egg yellow?

- A Food coloring added to it.
- B The type of chicken.
- C Chicken feed contains a pigment that hens store in their bodies.
- D It is unknown what causes yolks to be yellow.

3

Why do eggs have tiny holes called pores in the shell?

- A To allow farmers to see inside the egg.
- B To allow oxygen to pass in and carbon dioxide to exit.
- C To allow them to be cracked easily.
- D They do not have holes in their shells.

4

A female chicken is called a \_\_\_\_\_.

- A Chick
- B Hen
- C Rooster
- D Gobbler

## Poultry Ag Mag - Reading Passage

**Directions:** Read each question and choose the best answer.

5

The average hen lays how many eggs in a year?

- A 270 - 400 eggs
- B 310 - 370 eggs
- C 364 - 390 eggs
- D 270 - 300 eggs

6

Who holds the world egg-dropping record?

- A A Firefighter
- B David Donoghue
- C Johnie Dell
- D None of the above

7

It takes a hen how long to make the shell of an egg?

- A 20 hours
- B 3 hours
- C 24 hours
- D 1 hour

### Extended Response

Discuss how nutrition plays an important role in raising poultry. Be sure to include information about how production would be impacted by poor nutrition. Use your own knowledge of nutrition along with information from the Poultry Ag Mag to support your answer.