

Know Your Farm

Solve the problems to get a value for each letter of the alphabet. Then use the values to fill in the answers to the trivia questions below.

A =	B =	C =	D =	E =	F =	G =	H =	I =	J =	K =	L =	M =
$3\frac{1}{2} \div \frac{2}{5}$	$1\frac{5}{8} \div \frac{9}{27}$	$1\frac{1}{2} \div 1\frac{1}{2}$	$6\frac{3}{4} \div 2\frac{5}{9}$	$3\frac{2}{5} \div \frac{1}{3}$	$5\frac{3}{8} \div \frac{9}{10}$	$4\frac{1}{2} \div 2\frac{3}{4}$	$2\frac{1}{2} \div \frac{1}{4}$	$6\frac{7}{8} \div 3\frac{2}{5}$	$3\frac{1}{2} \div 3\frac{3}{4}$	$4\frac{2}{3} \div 2\frac{9}{10}$	$3\frac{1}{5} \div 4\frac{1}{5}$	$4\frac{1}{2} \div 2\frac{1}{2}$
N =	O =	P =	Q =	R =	S =	T =	U =	V =	W =	X =	Y =	Z =
$2\frac{4}{5} \div 2\frac{1}{10}$	$4\frac{1}{3} \div 3\frac{7}{10}$	$8\frac{3}{7} \div \frac{5}{6}$	$2\frac{1}{3} \div 3\frac{7}{10}$	$7\frac{1}{4} \div \frac{7}{8}$	$4\frac{1}{2} \div 3\frac{1}{5}$	$4\frac{2}{5} \div 4\frac{2}{3}$	$5\frac{1}{6} \div \frac{1}{3}$	$2\frac{1}{3} \div \frac{4}{6}$	$9\frac{1}{5} \div \frac{4}{10}$	$2\frac{7}{8} \div \frac{3}{4}$	$3\frac{1}{3} \div 2\frac{4}{6}$	$8\frac{9}{10} \div 1\frac{1}{2}$

- By the year 2050, our world population will be 9 billion. Farmers will need to _____ their food production to meet that demand. $\frac{2^{59}}{92} \frac{1^{19}}{111} \frac{15^1}{2} \frac{4^7}{8} \frac{16}{21} \frac{10^1}{5}$
- _____ uses scientific techniques to take the best traits from plants, animals or microorganisms and integrate them into a food that is more sustainable and better quality than the original. $\frac{5^{35}}{36} \frac{1^{19}}{111} \frac{1^{19}}{111} \frac{2^{59}}{92} \frac{4^7}{8} \frac{2^3}{136} \frac{1^{19}}{111} \frac{33}{35} \frac{10^1}{5} 1 \ 10 \ 1\frac{1}{3} \frac{1^{19}}{111} \frac{16}{21} \frac{1^{19}}{111} \frac{1^7}{11} \frac{1^1}{4}$
- According to the most recent Farm Census, 45% of farmers work on the farm _____; 55% have other jobs as well. $\frac{5^{35}}{36} \frac{15^1}{2} \frac{16}{21} \frac{16}{21} - \frac{33}{35} \frac{2^3}{136} \frac{1^4}{5} \frac{10^1}{5}$
- According to the USDA Census of Agriculture, _____—defined as having less than \$250,000 in agricultural sales—account for 91% of all farms in the U.S. $\frac{1^{13}}{32} \frac{1^4}{5} \frac{8^3}{4} \frac{16}{21} \frac{16}{21} \frac{5^{35}}{36} \frac{8^3}{4} \frac{8^2}{7} \frac{1^4}{5} \frac{1^{13}}{32}$
- There are about 2 _____ farms in the United States. The _____ U.S. farmer raises enough food to feed 155 people. $\frac{1^4}{5} \frac{2^3}{136} \frac{16}{21} \frac{16}{21} \frac{2^3}{136} \frac{1^{19}}{111} \frac{1^1}{3} \frac{8^3}{4} \frac{3^1}{2} \frac{10^1}{5} \frac{8^2}{7} \frac{8^3}{4} \frac{1^7}{11} \frac{10^1}{5}$
- _____ is the largest producer of wheat in the United States. An acre of wheat produces enough bread to feed nearly 9,000 people for one day. $\frac{1^{87}}{87} \frac{8^3}{4} \frac{1^1}{3} \frac{1^{13}}{32} \frac{8^3}{4} \frac{1^{13}}{32}$
- About 280 million laying hens produce some 60 _____ eggs each year in the United States. That's roughly one hen for every man, woman, and child in the country! $\frac{4^7}{8} \frac{2^3}{136} \frac{16}{21} \frac{16}{21} \frac{2^3}{136} \frac{1^{19}}{111} \frac{1^1}{3}$
- _____ has been grown in the United States for more than 300 years. Farmers in Arkansas, California, Louisiana, Texas, Missouri, and Mississippi produce about 20 billion _____ each year. $\frac{8^2}{7} \frac{2^3}{136} \frac{1}{1} \frac{10^1}{5} \frac{10^4}{35} \frac{1^{19}}{111} \frac{15^1}{2} \frac{1^1}{3} \frac{2^{59}}{92} \frac{1^{13}}{32}$
- An acre measures 4,840 square _____, or 43,560 square feet. That's about the size of a football field. $\frac{1^1}{4} \frac{8^3}{4} \frac{8^2}{7} \frac{2^{59}}{92} \frac{1^{13}}{32}$
- The practice of changing the type of crop grown in a particular field from one season to the next is called _____ . This practice preserves the nutrients in the soil. Another way to preserve nutrients is _____ farming, in which soil isn't disturbed. This practice increases the water and nutrients in the soil and decreases erosion. $\frac{1}{1} \frac{8^2}{7} \frac{1^{19}}{111} \frac{10^4}{35} \frac{8^2}{7} \frac{1^{19}}{111} \frac{33}{35} \frac{8^3}{4} \frac{33}{35} \frac{2^3}{136} \frac{1^{19}}{111} \frac{1^1}{3} \frac{1^1}{3} \frac{1^{19}}{111} \frac{33}{35} \frac{2^3}{136} \frac{16}{21} \frac{16}{21}$

Answer Key

1. double
2. Food biotechnology
3. full-time
4. small farms
5. million, average
6. Kansas
7. billion
8. Rice, pounds
9. yards
10. crop rotation, no-till

$$A = 8 \frac{3}{4}$$

$$B = 4 \frac{7}{8}$$

$$C = 1$$

$$D = 2 \frac{59}{92}$$

$$E = 10 \frac{1}{5}$$

$$F = 5 \frac{35}{36}$$

$$G = 1 \frac{7}{11}$$

$$H = 10$$

$$I = 2 \frac{3}{136}$$

$$J = \frac{14}{15}$$

$$K = 1 \frac{53}{87}$$

$$L = \frac{16}{21}$$

$$M = 1 \frac{4}{5}$$

$$N = 1 \frac{1}{3}$$

$$O = 1 \frac{19}{111}$$

$$P = 10 \frac{4}{35}$$

$$Q = \frac{70}{111}$$

$$R = 8 \frac{2}{7}$$

$$S = 1 \frac{13}{32}$$

$$T = \frac{33}{35}$$

$$U = 15 \frac{1}{2}$$

$$V = 3 \frac{1}{2}$$

$$W = 23$$

$$X = 3 \frac{5}{6}$$

$$Y = 1 \frac{1}{4}$$

$$Z = 5 \frac{14}{15}$$