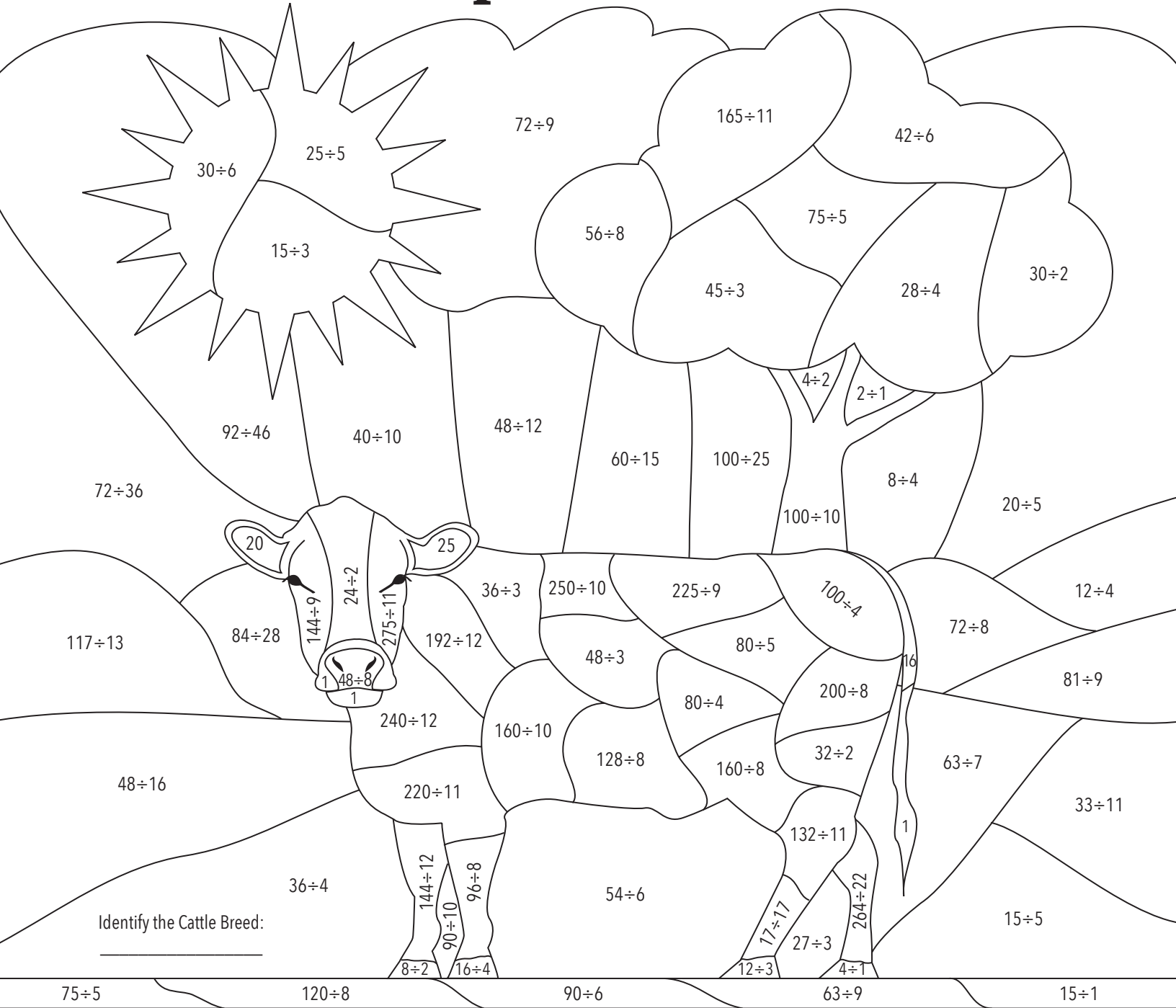


Beef Up Your Division



Identify the Cattle Breed:

Answer: Simmental

INSTRUCTIONS

Solve the math problems, then using the key, color the picture. Identify the Cattle Breed you colored by reading the California Cattle Breed Facts.

Orange = 5

Light Blue = 8

Light Green = 3, 9

Reddish-Brown = 16, 20, 25

Dark Green = 7, 15

Pink = 6

White = 1, 12

Black = 14

Brown = 10

Gray = 2, 4

CALIFORNIA CATTLE BREED FACTS

ANGUS cattle originated in Scotland and can be solid black or red. Angus cattle are polled, meaning they don't have horns.

HEREFORD cattle originated in England and are reddish-brown with all white faces. They also have white on their chest, belly, and legs. Hereford cattle have horns. Polled Hereford cattle do not.

CHAROLAIS cattle originated in France and are white or light tan in color. Charolais have horns, so are dehorned at a young age.

SIMMENTAL cattle originated in Switzerland and are usually reddish-brown with some white markings. Simmental cattle are among the oldest and most widely distributed breeds in the world.

GELBIVIEH cattle originated in Bavaria, in Southern Germany. Gelbvieh cattle are reddish-brown and were not introduced into the U.S. until the 1970's.

Beef Up Your Division

Think Like a Cattle Rancher!

A

B

Pen #1 

A rancher has 125 cattle to divide up into 5 pens. How many cattle will be in each pen?

Pen #3 

A cow will drink nearly 2 gallons per 100 pounds of weight when the weather is hot. If the average cow weighs 1,000 pounds, how much water will a cow need? If a rancher has a 1,000-gallon water trough for his herd, how many cows will be able to drink? How many gallons would he need for a herd of 15 cattle?

Pen #2 

A rancher has 100 hay bales. A cow needs 5 hay bales per week. How many weeks would 100 hay bales last one cow? If he has a herd of 10 cattle, how many weeks will the bales last?

Pasture #1 

Ranchers keep one bull for breeding approximately 30 cows. If a rancher has 240 cows, how many bulls does he or she need?

Pasture #2 

Just like humans, cattle need vitamins too. Vitamin A is important for vision, reproduction, and a healthy immune system. If a bottle of Vitamin A supplement contains 250 ml (milliliters), and each animal needs 6 ml, how many animals can be treated with a bottle containing 250 ml? If you have a herd of 200 cows, how many bottles of Vitamin A supplement will you need?

D

C

Use a ruler: Length & Width of Combined Pens: 6.5" x 3.75" Area of Pens: 24.38 in² Length & Width: Halved Pens: 3.25" x 1.88 in² Doubled Pens: 13" x 7.5" Area: Halved Pens: 6.11 in² Doubled Pens: 97.5 in² Answers: Pen #1: 25 cattle; Pen #2: 20 weeks; 2 weeks; Pen #3: 20 gallons; 50 cows; 300 gallons; Pasture #1: 8 bulls; Pasture #2: 41.6 rounds to 41 cattle; 5 bottles.

Use a ruler!

Measure and record the length and width of the combined pens in inches. Calculate the area. If you were to halve the length and width of the pens, how would that change the area? What if you doubled the length and width of the pens? Round all calculations to the nearest hundredth. Challenge: On another page, create a scale drawing of the pens either halved or doubled. Label and show all measurements.

Length & Width of Combined Pens: _____ Area of Pens: _____

Length & Width: Halved Pens _____ Doubled Pens _____

Area: Halved Pens _____ Doubled Pens _____

California Standards

- CCSS Math: 3.OA.2, 3, 7; 3.NBT.1, 10; 3.MD.8; 4.OA.3; 4.NBT.3, 6; 4.MD.3; 5.NBT.4, 5, 6; 5.MD.1; 6.NS2; 6.G.1
- Visual Arts Content: 1-6, 5.0

