Beef Up Your Division

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.

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

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

Name: ____________________________

Identify the Cattle Breed: ____________________________
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Think Like a Cattle Rancher!

Pen #1
A rancher has 125 cattle to divide up into 5 pens. How many cattle will be in each pen?

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?

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?

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?

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.NS.2; 6.G.1
• Visual Arts Content: 1-6, 5.0

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 ________________

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