# Beef Up Your Math! 

Beef Up Your Addition Beef Up Your Subtraction Beef Up Your Multiplication Beef Up Your Division Beef Up Your Fractions $\boldsymbol{Q}$ Decimals

Please share extra resources with teachers from other grade levels.

Project developed by:


For additional resources, visit LearnAboutAg.org/resources/learn_beef

## Beef Up Your Addition


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## Beef Up Your Addition



## Use a ruler!

Measure and record the perimeter of your pens and pastures using inches.
Side $A B$ : $\qquad$ Side BC: $\qquad$
Side CD: $\qquad$ Side DA: $\qquad$
Total perimeter: $\qquad$ (add all sides)

LearnAboutAg.org
California Standards

- CCSS Math: 1.OA.1, 3, 6; 2.OA.1, 2; 2.NBT.5; 2.MD.1, 5
- Visual Arts Content: 1-2, 5.0
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Beef Up Your Subtraction

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## Beef Up Your Subtraction



## Use a ruler!

Measure and record the perimeter of your pastures using inches.
Pasture 1: $\qquad$ Pasture 2: $\qquad$
You are the rancher and need to replace your fences. Find the combined total "fence line" or perimeter of the pastures. Hint: you will only count a

California Standards shared fence one time. Total fence line perimeter:

- CCSS Math: 1.OA.1, 3, 6; 2.OA.1, 2; 2.NBT.5; 2.MD.1, 5; 3.OA.8; 3.MD.4, 8; 4.NBT.4; 4.MD. 2
- Visual Arts Content: 1-4, 5.0
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## Beef Up Your Multiplication



## 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.

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

Yellow $=15,25,30$
Light Blue $=8,40$
Light Green $=6,9,20$
Reddish-Brown = 13, 17
Dark Green $=18,32$
Pink $=3$
White $=81$
Gray $=14,16,19$
Brown $=12,27$
Light Tan $=0,1,4,24,36,64$

## Beef Up Your Multiplication

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Think Like a Cattle Rancher! have altogether?

## Pen \#3

There are two barns each with 20 cattle and two pastures with 50 cattle each. How many cattle is that altogether?

## Pen \#2 rex

Four trucks each haul 30 cattle to auction. How many cattle is that altogether?

Pasture \#1
A cattle rancher is repairing a barbed-wire fence. The fence has three strands of wire.
(a) How much wire does he need to buy to repair a 132 -foot length of fence?
(b) If each roll of barbed-wire costs $\$ 26.00$ and the rancher needs to buy three rolls, what will be the total cost to repair the fence?



## Use a ruler!

Measure and record the length and width of each pen and the combined pastures. After you find the length and width, find the areas. Round to the nearest hundredth.
Length \& Width: Pen \#1 $\qquad$ Pen \#2 $\qquad$ Pen \#3 $\qquad$ Pastures 1 \& 2 combined $\qquad$
Area: Pen \#1 $\qquad$ Pen \#2 $\qquad$ Pen \#3 $\qquad$ Pastures 1 \& 2 combined $\qquad$
Challenge: What would the area of one pasture be? $\qquad$ California Standards

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


## Beef Up Your Division



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## CALIFORNIA CATTLE BREED FACTS

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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 $=2,4$


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?

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 \#2 ren |  |
| :--- |
|  |
| Pasture \#1 |

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

## Beef Up Your Fractions \& Decimals


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## Beef Up Your Fractions \& Decimals




## Use a ruler!

Measure the sides of all pens and pastures in inches. Record your answers on the drawing. Convert your answers to centimeters using this conversion, 1 inch $=2.54$ centimeters. Round to the nearest hundredth. Challenge: On another page create a table showing the measurements in inches, $\mathrm{ml}, \mathrm{cm}$, and km .

