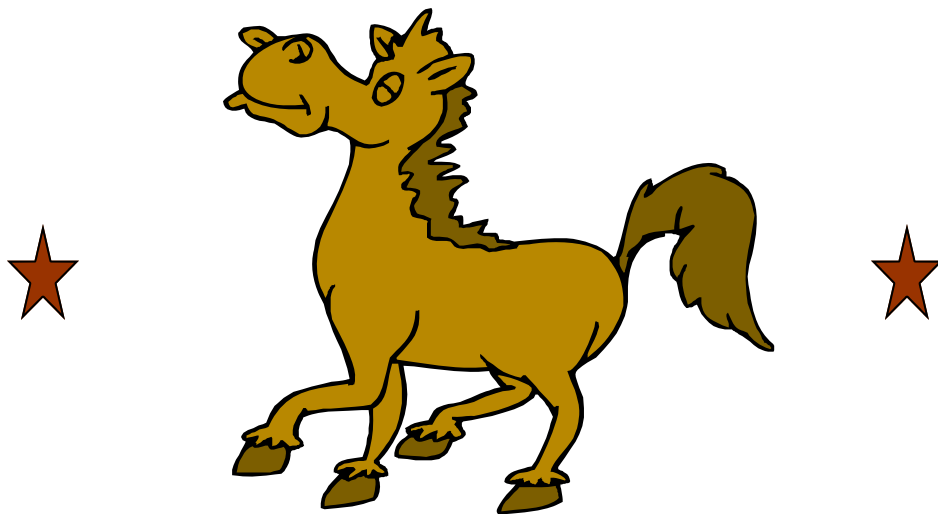




LAITC Horse Lesson Booklet

**Activities to Complement the
Horse Ag Mag!**



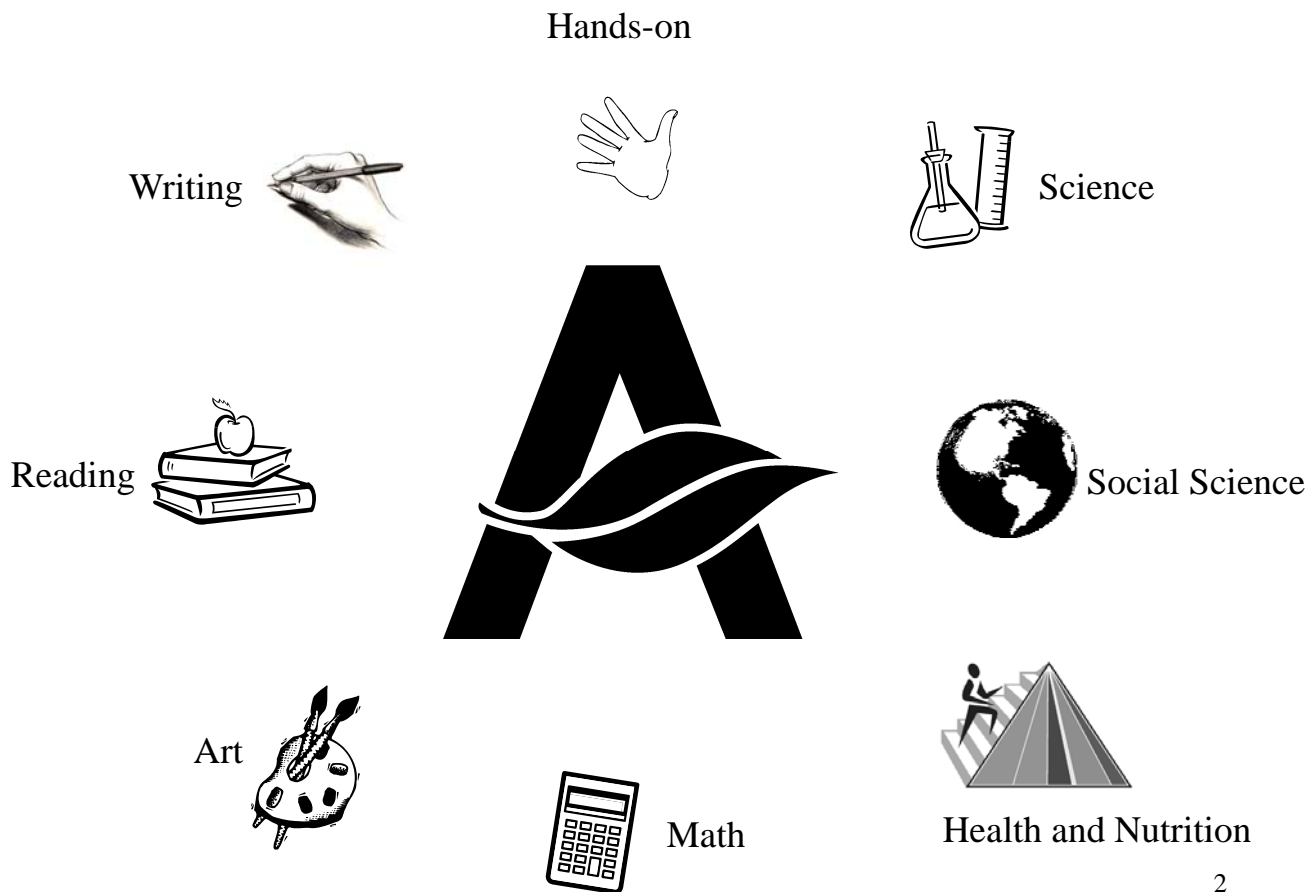
Horses have been useful animals for thousands of years. The horse has served human beings as a very important tool in progressing with the times.

It was once stated, “history was written on the back of a horse.” Horses were a fixture of many ancient civilizations. Horses enabled faster communication, travel, proved excellent allies in war and helped to transform agriculture. In this booklet, the horse will again serve us by allowing an interesting avenue for students to practice areas of science, social studies, and math.







This booklet is designed with the student audience in mind. These activities are intended to be used in the classroom as supplemental learning material.

Each lesson is correlated to the Illinois State Learning Standards and Assessment Framework. The answer sheet for each activity is provided at the end of this booklet.

A visual key has also been created and used with each activity to indicate its subject area. The topics include: hands-on, science, health and nutrition, reading, math, social studies, writing, and art.



Learning Standards and Assessments

	<p style="text-align: center;">The Reading Ranch Pages 4-9</p>	<p>Illinois Learning Standards: Reading: 1.B.2b; 1.C.2b; 1.C.2d; 2.A.2b Illinois Assessment Framework: 1.4.09; 1.4.10; 1.4.13; 1.4.14</p>
	<p style="text-align: center;">A “Hand”some Horse Pages 10-13</p>	<p>Illinois Learning Standards: Math 6.A.2a; 6.B.2a; 6.C.2a; 7.A.2a; 7.A.2b Illinois Assessment Framework: 6.5.02; 6.5.04; 6.5.08; 6.5.12; 6.5.12; 6.5.15; 7.5.02; 7.5.04</p>
	<p style="text-align: center;">A Horse of a Different Color Pages 14-16</p>	<p>Illinois Learning Standards: Reading 1.A.2a; 1.A.2b, 1.B.2a Writing 3.B.2b; 3.B.2c; 3.B.2d; 3.C.2a Illinois Assessment Framework: 1.5.02; 1.5.03; 1.5.04; 1.5.05; 1.5.07; 1.5.08</p>
	<p style="text-align: center;">Hoofing it Through History Pages 17-24</p>	<p>Illinois Learning Standards: Social Science 16.A.2a; 16.A.2b; 16.A.2c; 16.B.2d; 16.E.2c; Geography 17.A.2b Illinois Assessment Framework: 16.5.01; 16.5.02; 16.5.03; 15.5.04; 16.5.26; 16.5.27; 17.5.03; 17.5.04</p>
	<p style="text-align: center;">El Caballo (The Horse) Pages 25-27</p>	<p>Illinois Learning Standards: Social Studies 17.A.1a and 17.A.2a. English Language Arts 1.A.2a; 1.C.2f. Geography 17.A.2b Illinois Assessment Framework: 1.5.02; 16.5.27; 17.5.03; 17.5.04</p>
	<p style="text-align: center;">A Work Horse Pages 28-29</p>	<p>Illinois Learning Standards: Math 11.A.2b; 11.A.2e; 11.B.2c; 13.B.2a. Illinois Assessment Framework: Not available</p>



A “Hand”some Horse

Grade Level: 4-6 Math

Objective: After completing this activity, students will be more familiar with the unit of measurement called “hands” that is used to determine a horse’s height. Students will have also practiced reading rulers and making measurement conversions.

Illinois Learning Standards: Math 6.A.2a; 6.B.2a; 6.C.2a; 7.A.2a; 7.A.2b **Assessment Framework:** 6.5.02; 6.5.04; 6.5.08; 6.5.12; 6.5.12; 6.5.15; 7.5.02; 7.5.04.

Suggested Reading Materials:

IAITC Horse Ag Mag

50 Fabulous Measurement Activities by Martin Lee ISBN-10: 0590644068

Introduction: Horses are measured in units called “hands.” One hand represents 4 inches. The origin of measuring a horse this way is very old, but easy to understand. In days long ago people did not have the common measuring devices like tape measures. To measure a horse, they used what was available. At various times in history and in different locales, a "hand" was defined as the width of a person's hand using the fingers only, the width of a person's hand using the fingers and the thumb, the height of a clenched fist, and possibly many others. Somewhere along the way, the measuring unit of a hand was standardized to mean four inches. Though the origins are ancient, a hand is still the unit of measurement for horses that modern horse owners use today. This activity will allow students to convert horse heights into feet and inches and practice reading a ruler.

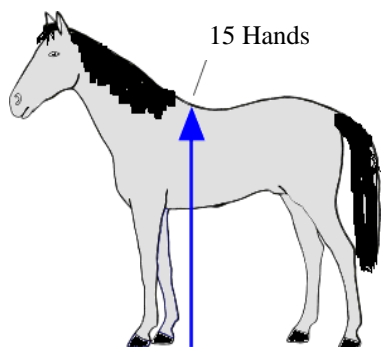
Lesson Extender!

1. Create a wall display that marks the standard heights for different breeds of horses and ponies. As a class, figure out what each measurement is in feet and inches and then mark them with a cut out of a horse. After the horses’ heights are marked, students could make their own sign and put it on the wall. Students will be able to compare their height with the horses’ height. You could even measure students at the beginning of the year and then at the end to see how much they have grown!

Directions: Carefully look at each horse and read the measurement from its withers (shoulder blades) to the ground. Each measurement will ask you to either determine how many “hands” tall the horse is or to convert hands into feet and inches.

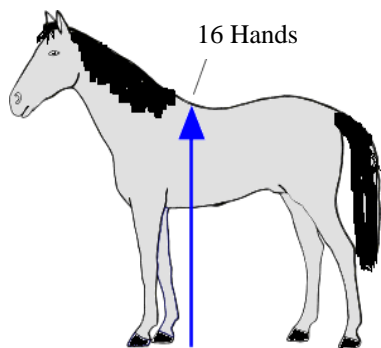
Important things to know: In the horse world a “hand” is equal to 4 inches. There are 12 inches in a foot.

Example:



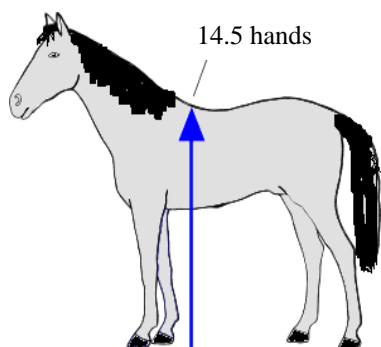
This horse is 15 hands tall, convert this measurement into feet and inches. Answer: 5 feet tall

Solution: $15 \text{ hands} \times 4 \text{ inches} = 60 \text{ inches}$
 $60 \text{ inches} \div 12 \text{ inches} = 5 \text{ feet tall at the withers}$



1. This horse is 16 hands tall, convert this measurement into feet and inches. Answer _____

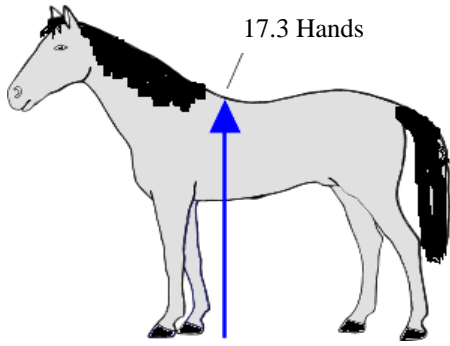
Show Your Work Here:



2. This horse is 14.5 hands tall, convert this measurement into feet and inches. Answer _____

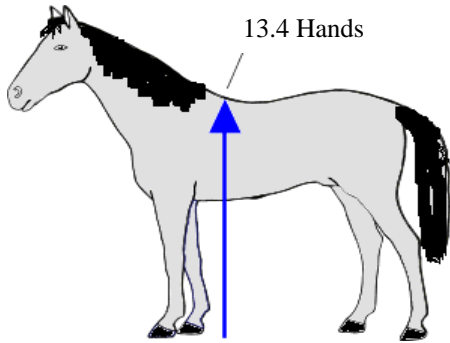
Show Your Work Here:

3. Thoroughbred horses have long legs and are tall. From the pictures and measurement above, which horse do you feel could be classified as a Thoroughbred due to its height? _____



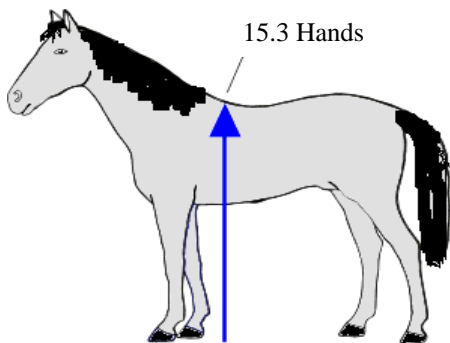
4. This horse is 17.3 hands tall, convert this measurement into feet and inches. Answer_____

Show Your Work Here:



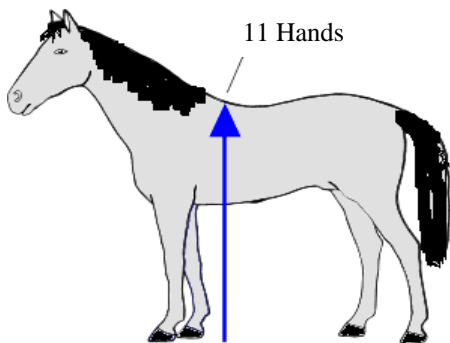
5. This horse is 13.4 hands tall, convert this measurement into feet and inches. Answer_____

Show Your Work Here:



6. This horse is 15.3 hands tall, convert this measurement into feet and inches. Answer_____

Show Your Work Here:



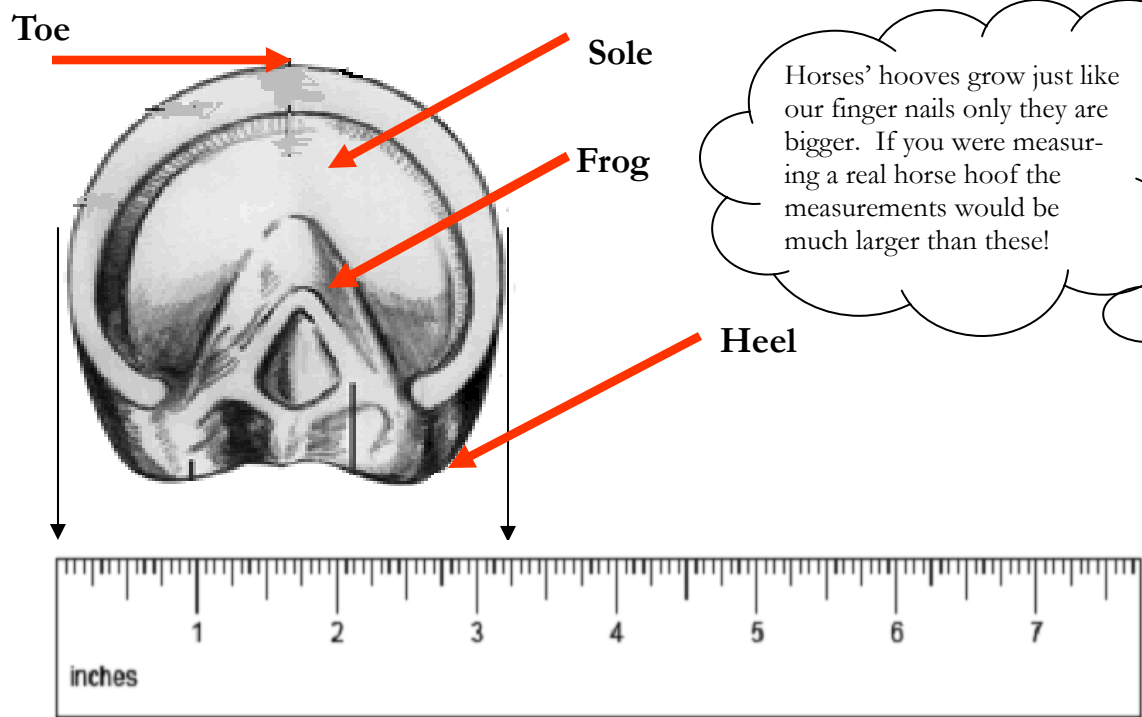
7. This horse is 11 hands tall, convert this measurement into feet and inches. Answer_____

Show Your Work Here:

8. If a horse is 5 feet 2 inches from the ground to the withers, how many hands tall is the horse?_____

(Hint just reverse the math equation but don't forget to put it into inches before you divide.)

9. How wide is the bottom of this horse's foot? _____ inches. (Measure between the marked lines.) Convert the inches into cm _____.



Horses' hooves grow just like our finger nails only they are bigger. If you were measuring a real horse hoof the measurements would be much larger than these!



10. Measure this horseshoe to determine if it will fit on the horse's foot above? Horseshoes can be bent $\frac{1}{2}$ inch with a hammer, that being said will this shoe fit the foot above? _____





Answers!!

The Reading Ranch (Pages 6-9):

4th Grade: 1. C 2. D 3. C 4. B 5. B 6. A 7. C 8. A

6th Grade: 1. D 2. C 3. A 4. B 5. A 6. C 7. D 8. D

A “Hand”some Horse (Pages 11-13):

1. 5ft. 3 inches
2. 4ft. 8 inches
3. the 16 hand horse
4. 4.5ft. 8 inches
5. 4ft. 5 inches
6. 5ft. 1 inch
7. 3ft 7 inches
8. 15.6 hands
9. 3¼ inches or 8.3 cm.
10. Measures 4½, so no it would not fit.

Hoofing it Through History (Pages 20-24):

Union States (blue): Ca, Or, Ks, Mn, Ia, Wi, Il, In, Mi, Oh, Wv, Pa, Ny, De, Nj, Ct, Ri, Ma, Vt, Nh and Me.

Confederate State (gray): Tx, Ar, La, Ms, Al, Ga, Fl, Tn, Sc, Nc and Va.

Latitude and Longitude of the first Battle of Belmont: 36 degrees 47’00.21” North by 88 degrees 56’ 28.49” West with an elevation of 350ft.

ISAT Questions:

1. C
2. D
3. B
4. C
5. B
6. C
7. A
8. C

El Caballo: The Horse (Pages 26-27)

Scrambled words are in the same order from top to bottom as on the teacher pronunciation page. So Bridle is the first word and Tail is the last.

A Work Horse (Page 29): Answers will vary by student.

Additional Resources!!

Recommended Books

A Field Full of Horses by Peter Hansard

Horse Dictionary: An A to Z of Horse by Don Harper

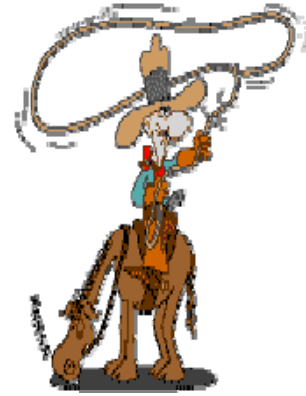
Leah's Pony by Elizabeth Friedrich

Leonardo's Horse by Jean Fritz

Misty of Chincoteague by Marguerite Henry

The Perfect Pony by Corinne Demas

Wild Horses by George Edward Stanley



Cool Websites

For coat colors and patterns: <http://www.equusite.com/articles/basics/basicsColors.shtml>

Study the different breeds of horses: <http://www.ansi.okstate.edu/breeds/horses/>

General horse information: <http://horsefun.com/>

History of the horse: <http://www.imh.org/index.php>

Horse Facts: <http://www.fbresearch.org/HorseFacts/index.htm>

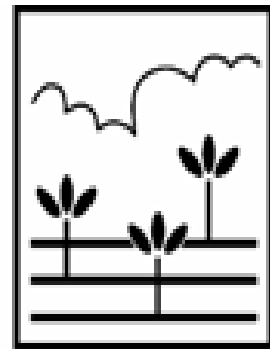
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