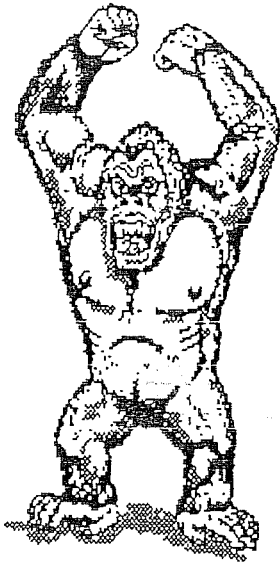


Extended Homework

Due: _____

The Zoo

Name: _____



You have been hired by the Handy Dandy Zoo Company to plan and design a *new* zoo.

You have \$1500 to spend on the animals and the cages.

Use the information provided to help you in your planning of the new zoo.

Your task is to:

1. Choose as many different animals as you can and the sizes of cages, using the information provided. **BE SURE** to stay within the amount of money provided.
 - fill out the chart for the costs of all of the animals and all of the cages
2. Design the zoo and make a map. Use the graph paper to show the location of all of the cages.
 - inside each cage show the area and perimeter
3. Prepare a report of your work to the Board of Directors of the Handy Dandy Zoo Company. Be sure to explain clearly and completely to them:
 - how your plan meets the amount of money they wanted to spend
 - how your zoo design
 - √ makes the best use of space
 - √ is best for visitors to the zoo
 - √ is best for the animals

Good Luck!

The Zoo Chart

Animals	Cost	Special Needs
Elephant	\$48 each or \$125 for three	Must have waterhole Lives in herds of 6, 8 or 12 Need 200 square units each
Crocodile	\$28 each or \$50 for two	Must have water Live in pairs Frightened by elephants Need 65 square units each
Hippopotomus	\$36 each or \$65 for two	Must have waterhole Live in trios Need 100 square units each
Tigers	\$32 each or \$48 for two	Needs trees Lives in pairs Need 75 square units each
Cranes	\$55 each	Needs trees Lives in flocks of five Need 30 square units each
Peacock	\$15 each or \$40 for three	Cannot be near crocodiles Males cost \$5 more than females Live in pairs Need 30 square units each
Baboons	\$42 each or \$80 for two	Needs trees Cannot be near tigers Lives in troops of 6 Need 40 square units each
Giraffe	\$30 each	Live in pairs Need trees Need 60 square units each

Cage prices

Less than 100 square units	\$16
100 square units to 150 square units	\$24
151 square units to 200 square units	\$36
More than 200 square units	\$48

The Zoo

Name of Animal No. of Animals Cost per Animal Tot. cost per animal sq. units per animal sq. units of cages needed Tot. Cost of cages

Name of Animal	No. of Animals	Cost per Animal	Tot. cost per animal	sq. units per animal	sq. units of cages needed	Tot. Cost of cages

TOTAL AMOUNT FOR ANIMALS:

\$

TOTAL AMOUNT FOR CAGES:

\$

TOTAL COST OF ANIMALS AND CAGES:

\$

Handy Dandy Zoo Company

Proposal Evaluation

Board of Directors: _____

Proposal Presented by: _____

Presentation was clear 5 4 3 2 1 very unclear

Plan included lots of animals 5 4 3 2 1 small selection, or not a good mix

Math work on chart all correct 5 4 3 2 1 many mistakes on math work

Plan spent all of the money 5 4 3 2 1 went over, or left a lot unspent

Design follows what the chart said 5 4 3 2 1 Plan did not follow the chart

Area and Perimeter were accurate 5 4 3 2 1 not there, or not accurate

Design is neat and clear 5 4 3 2 1 not neat and/or clear; sloppy

Design is great; many extras; nice 5 4 3 2 1 no extras; very boring

Report is clear and complete 5 4 3 2 1 not clear and/or not complete

Plan makes best use of space 5 4 3 2 1 does not make good use of space

Plan is great for visitors 5 4 3 2 1 not good for visitors

Plan is great for animals 5 4 3 2 1 not good for animals

Add all circled numbers. Give the TOTAL:

Recommendation:

Proposal Accepted:

Proposal Rejected:

Reasons for Acceptance or Rejection:

1. _____

2. _____

3. _____

4. _____