Unit 8 Study Guide

12 yards

$8\frac{2}{12}$ yards

A dad wants to convert this corner of his yard into a garden. He plans on putting fencing around the garden to keep animals out. How many **feet** of fencing should he buy to completely surround the garden? Explain. (Hint: Pay attention to your units)

He should buy _____ feet of fencing.

Explanation: _____

_____

_____

If the dad wants to cover the garden with an even layer of dirt, what is the area of the garden in **square yards**?

_____ square yards

How many **square feet** is that? (Hint... Think about how many square feet are in one square yard)

_____ square feet

If each bag of dirt covers 25 square feet, how many bags should he buy? Explain

_____ bags of dirt

Explanation: _____

_____

Three inches of snow fell the next day. The dad had to shovel off all the snow from the garden.

Three inches is equal to how many feet? _____

How many **cubic feet** of snow did the dad remove? Explain.

He removed _____ cubic feet of snow.

Explanation: _____

_____

_____

A typical newborn baby blinks 15 times per minute.

How many times does a typical newborn baby blink in one hour?

About _____ times

How many times does a typical newborn baby blink in one day?

About _____ times

How many times does a typical newborn baby blink in one week?

About _____ times

Timmy won a $1,000 scholarship at school. He gets to go on a trip to New York City to study Art. His travel, hotel, and meals will cost $689. Timmy can use the rest of the money for extra activities and to purchase souvenirs. Prices for various items are given below.

Item	Cost	Item	Cost
Snack from food truck	$3.50	Drink from food truck	$1.89
T-shirt	$21.95	Calendar	$18.99
Coffee Mug	$12.50	Train ride	$4.23
Postcard	$1.25	Keychain	$3.29

Use the accounting sheet below to help Timmy plan how to spend his remaining money. Note that you only need to find approximate total costs. Write the number sentence to show how you found the approximate total cost for each item.

Item	Quantity	Unit Cost	Approximate Total Cost

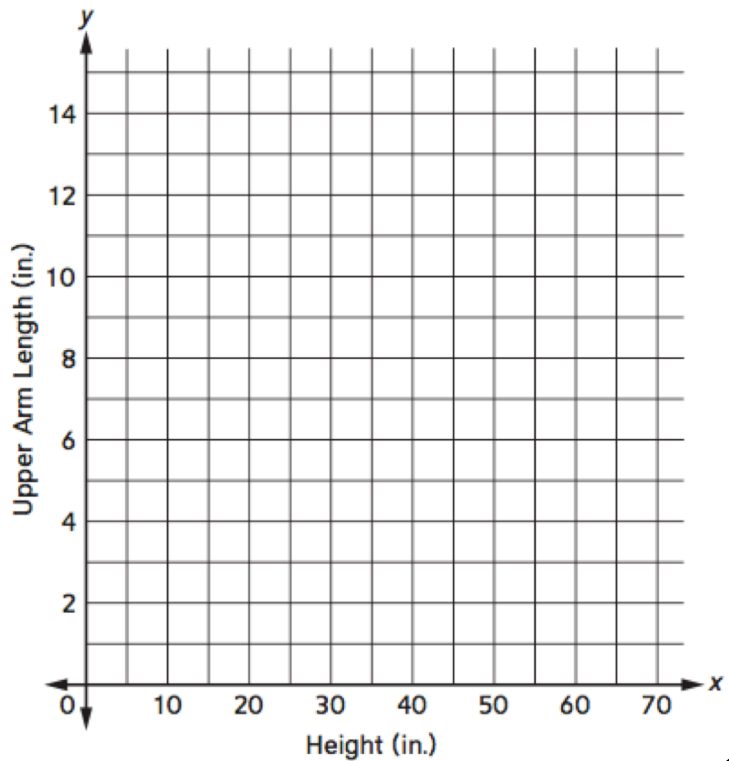Explain the decisions you made: _____

_____

_____

Jamie measured the height and upper arm length (from shoulder to elbow) of four people in her family. The table at the right shows her data.

Height (inches)	Upper Arm Length (inches)
45	9
50	11
65	12
71	14

Write Jamie's data as ordered pairs: _____   _____

_____   _____

Plot the points on this grid. Then use line segments to connect the points in order.

Does the person's height seem to be relative to their upper arm length? Explain how you know.

_____

_____

_____

_____

y

14

12

10

8

6

4

2

Upper Arm Length (in.)

0   10   20   30   40   50   60   70   x

Height (in.)

A typical cheetah can travel about 20 feet with each jump. About how many jumps would it take to travel 2 miles? Hint: 1 Mile = 5,280 Feet

About _____ jumps