

**Mathematics Assessment
Collaborative**

**Grade Three
Performance Assessment
Spring 2004**

District MAC # _____
Districts Student Id # _____

(Option: District May Use a Label Here)

To be completed by official Scorer

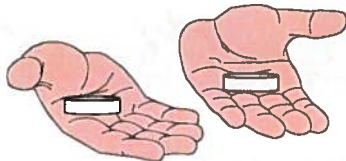
	Score	Score Chk
Task 1 Dave's Money (6)		
Task 2 Tropical Fish (9)		
Task 3 Symbols (10)		
Task 4 Boxing the Pots (8)		
Task 5 A Silly Story (7)		
Total (40)		

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Dave's Pocket Money

This problem gives you the chance to:

- solve simple money problems
-



Dave's grandmother gave him some spending money.

She gave him **one** of each of these 4 coins: 1¢ 5¢ 10¢ 25¢

Dave put the four coins in his pocket.

1. Later in the day, Dave put his hand in his pocket and pulled out **3** of the coins.
What is the **largest** amount of money he could have pulled out?

Show how you figured this out.

_____ ¢

Dave put the 3 coins back in his pocket.

2. After a few minutes, Dave again put his hand in his pocket and pulled out **3** coins.
What is the **smallest** amount of money he could have pulled out?

Show how you figured this out.

_____ ¢

Dave put the 3 coins back in his pocket.

3. After a little while, Dave pulled out just 2 coins from his pocket.
Show the different amounts of money he could have pulled out.

The first one has been done for you.

$$25¢ + 10¢ = 35¢$$

Tropical Fish

This problem gives you the chance to:

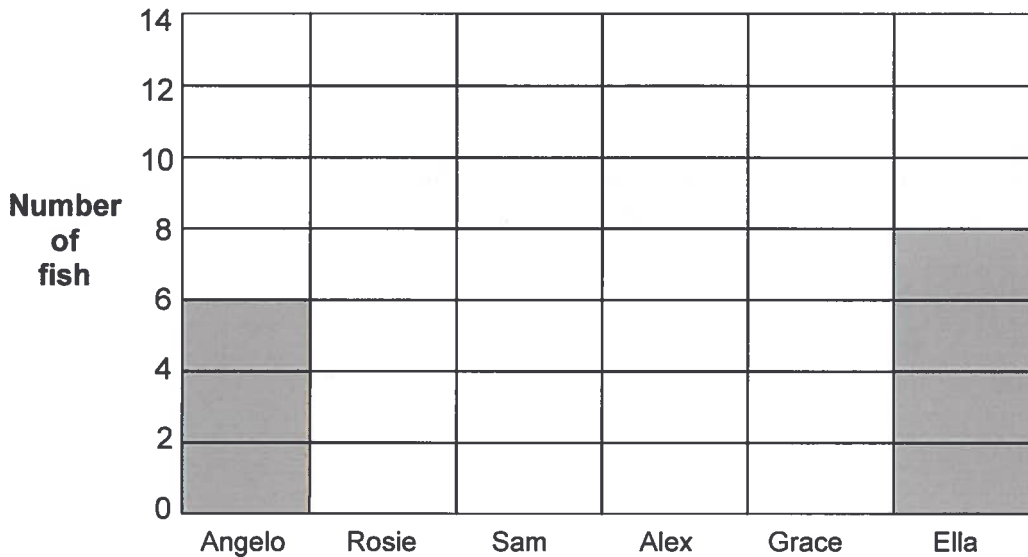
- read a frequency table and represent data using a bar chart
-



The students at Dale Elementary School belong to a tropical fish club. A group of students carries out a survey to see how many fish they have. Here are the survey results.

Student	Number of fish
Angelo	6
Rosie	5
Sam	10
Alex	12
Grace	11
Ella	

1. Show the survey results in the bar graph below.



2. How many fish does Ella have? _____

3. How many more fish does Alex have than Rosie? _____

Show your work.

4. How many fish in all do these students have? _____

Show how you figured it out.

Symbols

This problem gives you the chance to:

- solve number problems in symbols



In these expressions the ☆ stands for a number and the ☾ stands for a different number.

$$\star - \text{☾} = 4$$

and

$$\star + \text{☾} = 8$$

$$6 - 2 = 4$$

and

$$6 + 2 = 8$$

So the ☆ stands 6 for and the ☾ stands for 2.

In each of the expressions below replace the symbols with just **one pair** of numbers.

You may need to try out several pairs of numbers before you find the right pair.

1. $\star + \text{✂} = 7$ and $\star \times \text{✂} = 10$

_____ + _____ = 7 and _____ x _____ = 10

2. $\text{✎} + \text{♣} = 10$ and $\text{✎} - \text{♣} = 4$

_____ + _____ = 10 and _____ - _____ = 4

3.  +  = 7

and

 x  = 12

____ + ____ = 7

and

____ x ____ = 12

4.  +  = 10

and

 ÷  = 4

____ + ____ = 10

and

____ ÷ ____ = 4

5.  ÷  = 3

and

 -  = 6

____ ÷ ____ = 3

and

____ - ____ = 6

Boxing the Pots

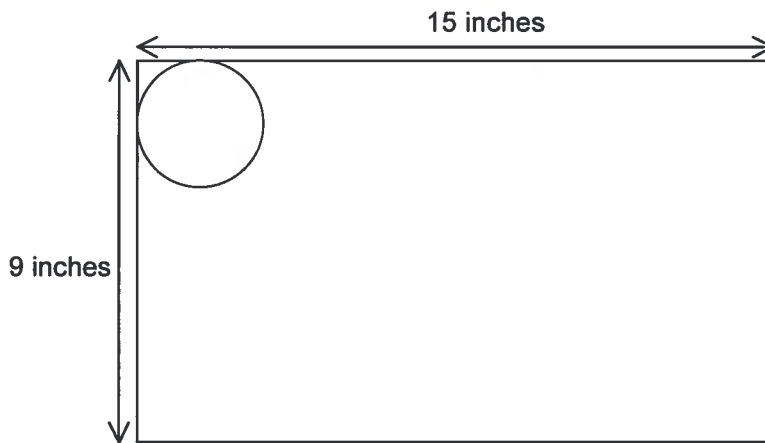
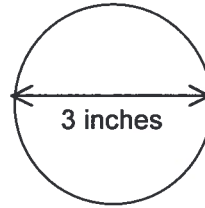
This problem gives you the chance to:

- select and use operations in a real life situation
- use customary units of measurement

At the garden center, Mr. Garcia is putting plant pots into boxes ready to take to market.

The diameter of each plant pot is 3 inches.

Each box measures 9 inches by 15 inches



1. How many pots can Mr. Garcia arrange along the side of the box that measures 15 inches?

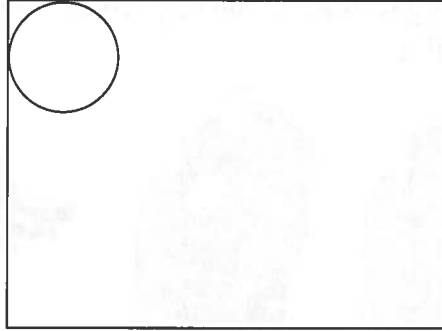
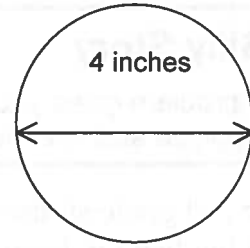
2. How many pots can Mr. Garcia arrange along the side of the box that measures 9 inches?

3. How many pots will the box hold?

Show how you figured this out.

4. Mr. Garcia has 12 pots that are 4 inches in diameter.

They can fit exactly into a different box.



What do you think are the measurements of this box?

Length _____ inches

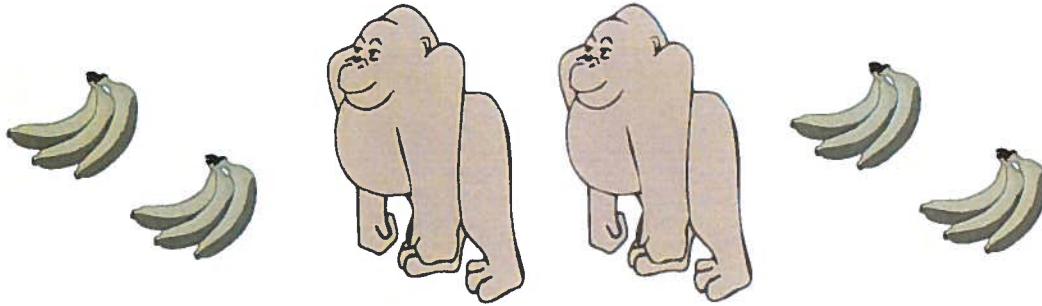
Width _____ inches

Explain how you figured this out.

A Silly Story

This problem gives you the chance to:
• recognize and use multiplication

Two 3rd grade students were walking to school one day when they saw their teacher walking hand in hand with two gorillas.



1. Each gorilla had **5 bags**.

How many bags were there in all?

2. In each bag there were **2 bunches** of bananas.

How many bunches of bananas were there in all?

Show your calculation.

3. There were **3 bananas** in each bunch.

How many bananas were there in all?

Explain how you figured it out.

4. Each gorilla ate a bunch of bananas.

How many bananas did each gorilla have left?

Show your work.
