

PLEASE TURN
THE PAGE

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The Baby Dragon

This problem gives you the chance to:

- describe and extend a number pattern

This baby dragon's claws grow 2 inches each month and the spines on her back grow 3 inches each month.

When she was born she had no claws but her spines were 1 inch long.

The dragon's mom made this chart showing her baby's growth.



Age in months	0	1	2	3	4
Length of claws in inches	0	2	4		
Length of spines in inches	1	4	7		

1. How long will the baby's claws be when she is 3 months old? _____ inches

How long will the baby's spines be when she is 3 months old? _____ inches
Write this information in the chart.

2. Fill in the baby dragon's growth chart for when she is 4 months old.

3. How old will the baby dragon be when her claws are 18 inches long? _____ months

4. Her mom told the baby that her claws would be 25 inches long when she was one year old. Explain how you know that she is wrong.

5. When the baby dragon is 6 months old, how much longer will her spines be than her claws?

_____ inches

Show how you figured this out.

6. When the baby's claws are 20 inches long, how long will her spines be?

_____ inches

Show how you figured this out.

Patio Plants

This problem gives you the chance to:

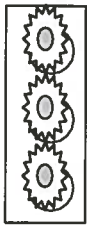
- solve everyday number problems
-

Wai Fun wants to put plants into rectangular wooden boxes to decorate her patio.

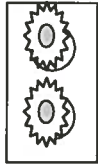
She has lots of boxes in different sizes.



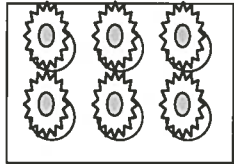
Box A holds 3 plants, Box B holds 2 plants,
Box C holds 6 plants, Box D holds 4 plants, and box E holds 5 plants.



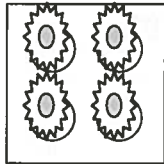
A



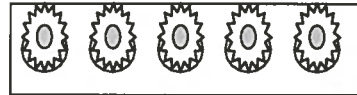
B



C



D



E

Wai Fun has bought 12 plants, she is now deciding which boxes to use.

1. How many size A boxes could she fill with these 12 plants? _____

Show how you figured this out.

2. If she wants to fill six boxes which boxes should she choose? _____

Show how you figured this out.

3. Wai Fun thinks that her 12 plants might look good in just two boxes.

How many plants would there be in each of these boxes? _____

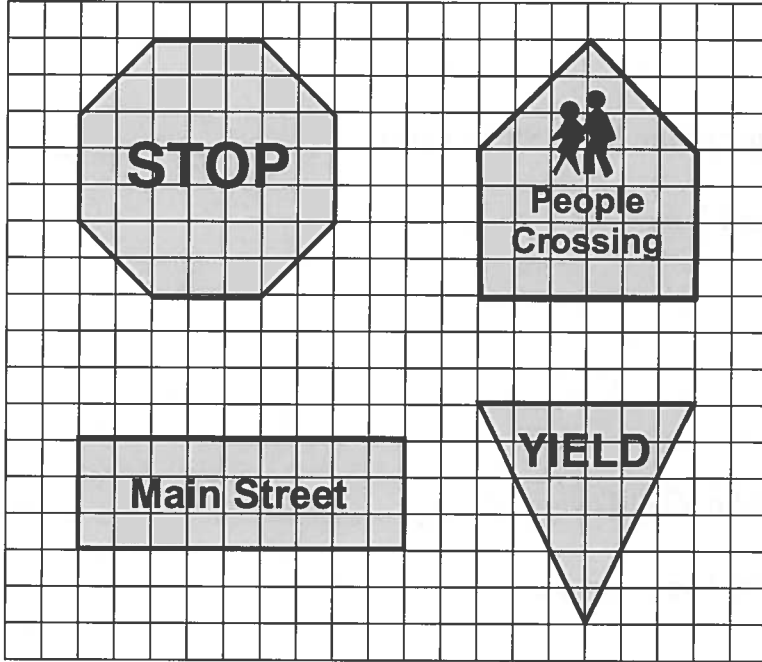
4. Wai Fun has only three boxes that are size D.
Will her 12 plants fit into these?
Show how you figured this out.

5. If Wai Fun decides to fill two size E boxes with her plants, how many
plants will she have left over?
Show how you figured this out.

Road Signs

This problem gives you the chance to:

- identify and describe shapes
- find area and perimeter



= 1 square

1. The STOP sign has four pairs of parallel sides.

Name a sign that has **two pairs of parallel** sides. _____

2. Which signs have **perpendicular** sides?

3. Write three statements that describe the shape of the People Crossing sign.

4. What is the **area** of the Main Street sign? _____ square units

Show how you figured it out.

5. What is the **perimeter** of the Main Street sign? _____ units

Show how you figured it out.

6. Estimate the area of the YIELD sign. _____ square units

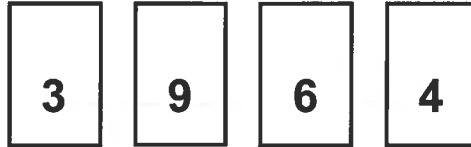
Explain how you found your answer.

Number Cards

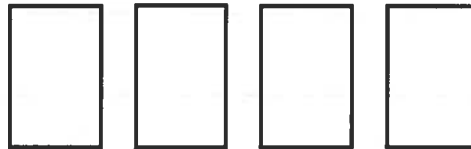
This problem gives you the chance to:

- solve problems with numbers and notation
 - explain your method
-

Jane and Tom are playing number card games. They have the four cards shown below.



1. Show how they arrange these four cards to make the smallest number possible.



2. Show how they arrange these four cards to make the largest number possible.



Explain how you figured it out.

3. Show how they arrange the four cards to make two numbers whose sum is 85.

$$\square \square + \square \square = 85$$

4. Show how they arrange the four cards to make two numbers whose difference is 26.

$$\square \square - \square \square = 26$$

Explain your work.

5. Show how they arrange the four cards to make the number that is nearest to 5000.

$$\square \square \square \square$$

Explain how you figured it out.

Sea Shells

This problem gives you the chance to:

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

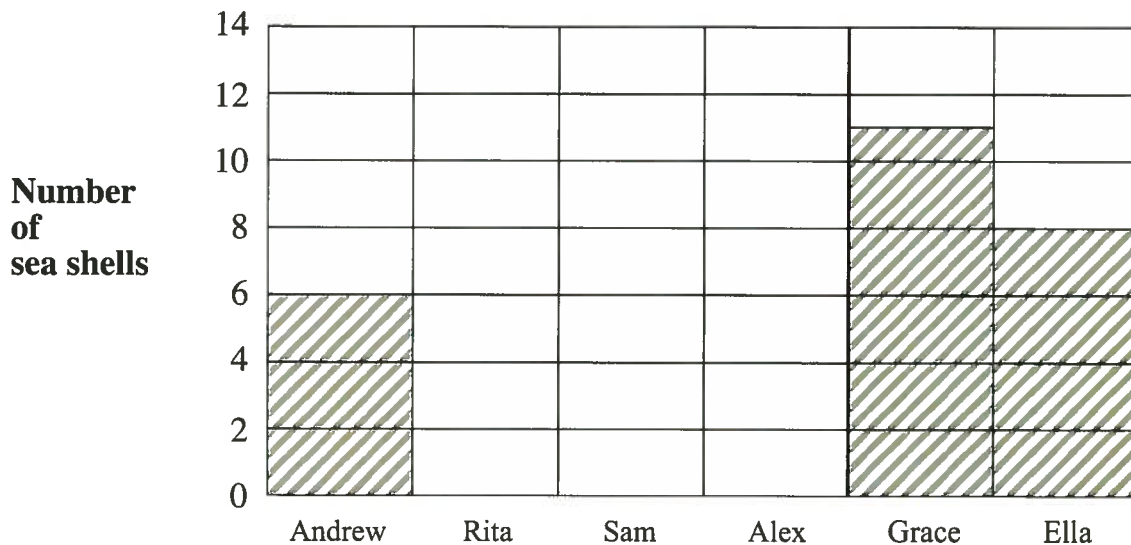
The students at Dale Elementary School are collecting sea shells on the sea shore.



Here is a list to show how many sea shells they have each collected.

Student	Number of sea shells
Andrew	6
Rita	5
Sam	10
Alex	12
Grace	
Ella	

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



2. How many sea shells have Grace and Ella collected? _____

3. In all, how many sea shells have these students collected? _____
Show how you figured it out.

4. Andrew gives his shells to Sam and Alex.
He gives twice as many to Sam as to Alex.

How many shells did he give to Sam and Alex? _____