

# Balanced Assessment *in* Mathematics

# 3

These tasks give you a chance to show how you reason and solve mathematical problems.

Please show your work and reasoning in the spaces provided.

Name: _____	Male	Female
School: _____	City: _____	
Teacher: _____	Grade: _____	
Date: _____		

Do not write in the box below:

<b>3</b>	Flower Garden 8	Houses in a Row 8	The Answer is 36 9	Pens and Pencils 8	Garden Design 7	Total 40
<b>06</b>						



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## The Flower Garden

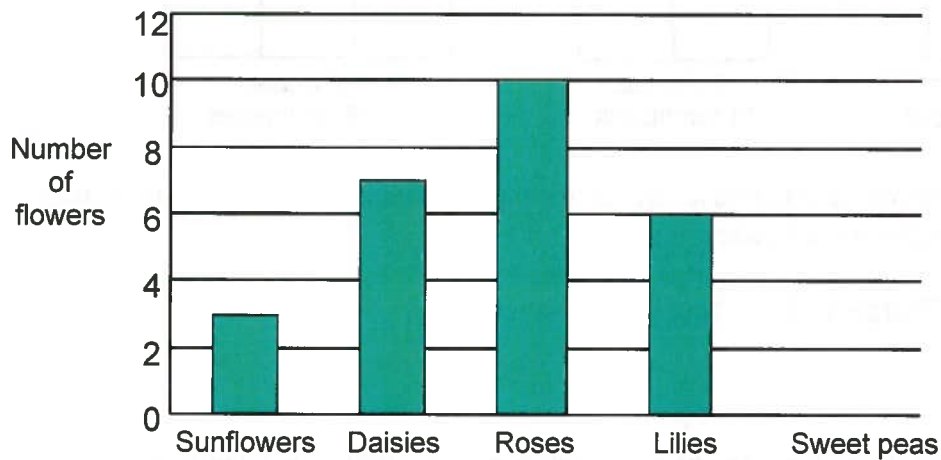
This problem gives you the chance to:

- represent data using a bar graph
  - draw conclusions from the data
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Cameron grows flowers in his garden.

He grows sunflowers, daisies, roses, lilies and sweet peas.

Cameron draws a bar graph to show how many flowers are in his garden today.



1. How many sunflowers are there in Cameron's garden today? \_\_\_\_\_
2. How many more roses are there than sunflowers?  
Show your work. \_\_\_\_\_
3. On Cameron's bar graph, show that there are 8 sweet peas in his garden today.
4. Cameron waters all the daisies, roses and lilies.  
How many flowers does he water in all? \_\_\_\_\_  
Show how you figured this out.
5. Cameron picks the flowers he has most of to give to his granny.  
Which flowers does he pick? \_\_\_\_\_

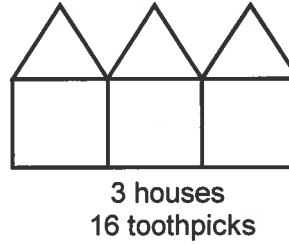
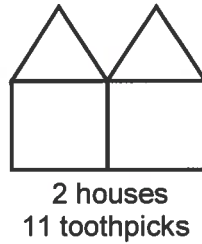
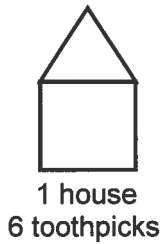
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## Houses in a Row

This problem gives you the chance to:

- find a pattern in a sequence of diagrams
  - use the pattern to make a prediction
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Lindsay uses toothpicks to make houses in a row.



Six toothpicks make one house, eleven toothpicks make two houses, and sixteen toothpicks make three houses.

1. Draw a diagram to show four houses in a row.
2. Lindsay makes a table to show the number of toothpicks needed to make different numbers of houses in a row.

Number of houses	1	2	3	4	5	6
Number of toothpicks	6	11	16			

How many toothpicks are needed to make four houses in a row?

Write your answer in Lindsay's table.

3. How many toothpicks are needed to make six houses in a row? \_\_\_\_\_  
Explain how you figured it out.

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4. Lindsay has 41 toothpicks.

How many houses in a row can she make? \_\_\_\_\_

Explain how you figured it out.

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5. Lindsay says, "I need 55 toothpicks to make 11 houses in a row."

Lindsay is wrong. Explain why she is wrong.

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How many toothpicks does Lindsay need to make 11 houses in a row?

\_\_\_\_\_

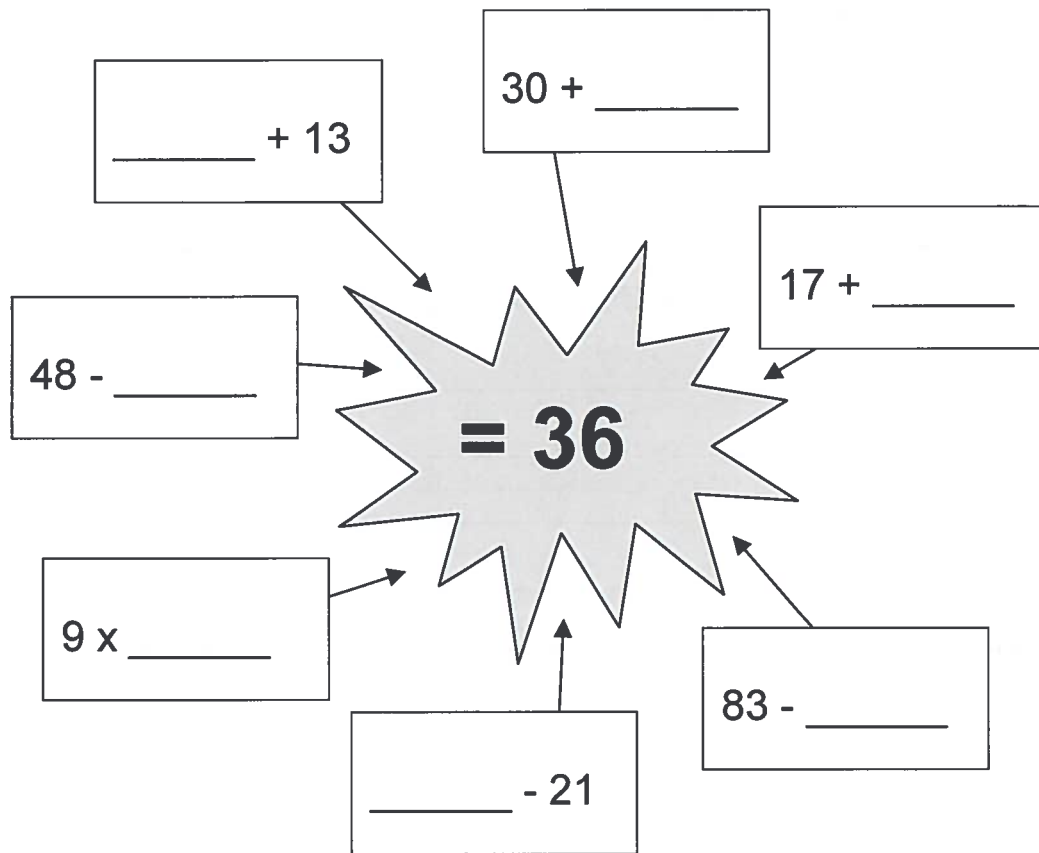
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## The Answer is 36

This problem gives you the chance to:

- work with number calculations to get the answer 36
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1. Fill in the missing numbers so that the answer is **always 36**.



2. Fill in the gaps below to make the answer 36.

You may use these signs:    +    -

$$47 \quad \underline{\hspace{1cm}} \quad 35 \quad \underline{\hspace{1cm}} \quad 24 \quad = \quad 36$$

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## Pens and Pencils

This problem gives you the chance to:

- choose and use number operations in a real context
- 



Jane has \$10 to spend. She buys five pens and five pencils.

Each pen costs \$1.30.

Each pencil costs 45¢.

1. How much does she spend altogether? \$ \_\_\_\_\_

Explain how you figured it out.

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2. How much money does she have left? \$ \_\_\_\_\_

Show your work.

## Garden Design

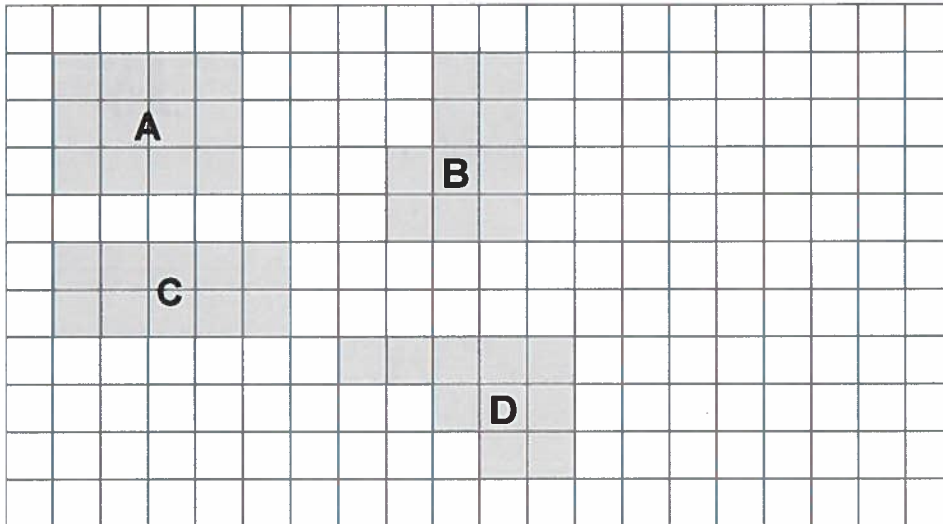
This problem gives you the chance to:

- compare areas of shapes on a grid
- draw a shape with given area

Here is a plan of Martin's garden.

The shaded areas show where he plants flowers.

Scale:  = 1 square unit



1. What is the area of shape A? \_\_\_\_\_ square units

2. Which shape has the largest area? \_\_\_\_\_

Explain how you figured it out.

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3. On the diagram above, draw a different shape that has the same area as shape A.

Label your shape E.

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