

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: _____		

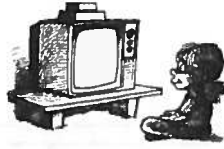
Do not write in the box below:

3	Television Time 5	Katie's Kitchen 9	Number Cards 9	Sponsored Walk 9	Teddy Bears 8	Total 40

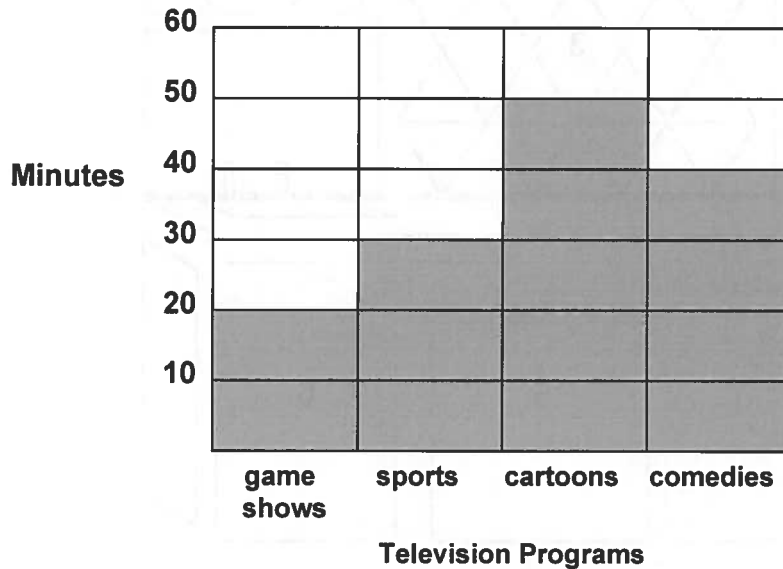
Television Time

This problem gives you the chance to:

- look at a graph and determine what it shows



Terrie loves television. This graph shows how much she watches on Saturday.



1. Which is Terrie's favorite kind of program? _____
2. How many minutes of sports does Terrie watch? _____
3. How much longer does she spend watching comedies than game shows?

4. How much time, in all, does Terrie watch television on Saturday?

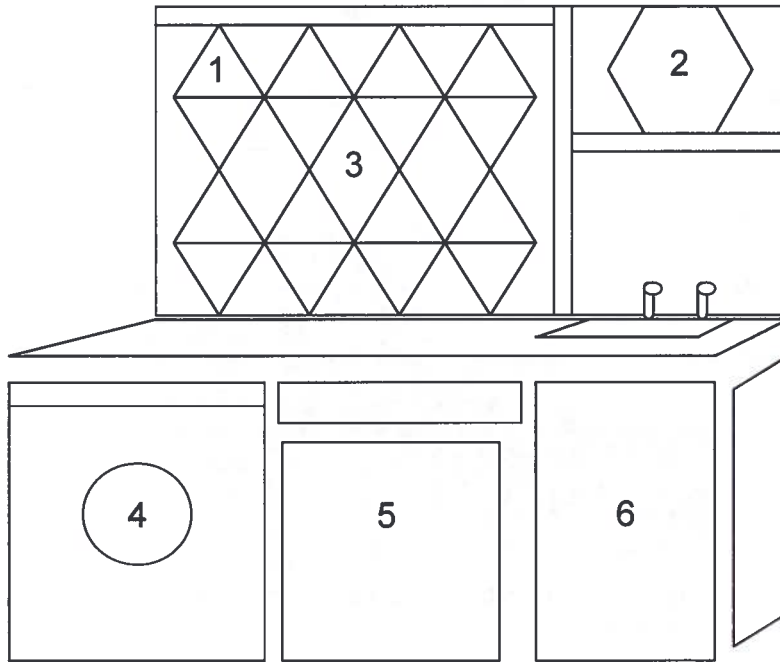
Show how you figured this out.

Katie's Kitchen

This problem gives you the chance to:

- name and create two dimensional shapes
 - recognize flips and turns
-

Here is a picture of Katie's kitchen.



Name the numbered shapes.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

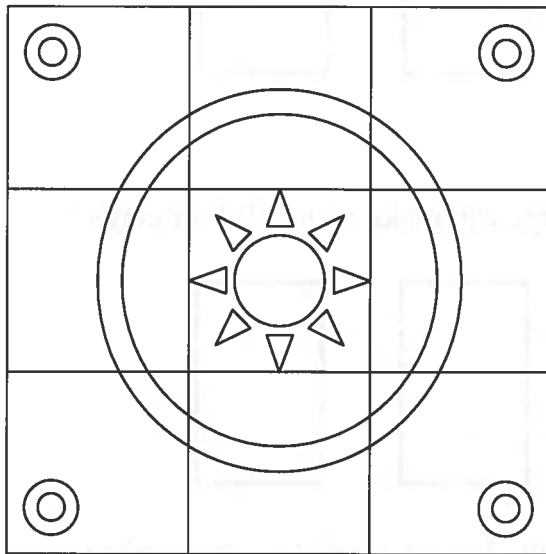
Katie would like to have some handles on her kitchen drawers.
 She wants either pentagon shapes or octagons.
 In the space below, draw one of each of these shapes to help Katie decide which she should choose.

7. **Pentagon**

8. **Octagon**



9. Here is a design that Katie is going to use on the floor of her kitchen.
 The design has been made using 9 tiles.



How many **different** tiles make up this design? _____

Remember you can turn the tiles around.

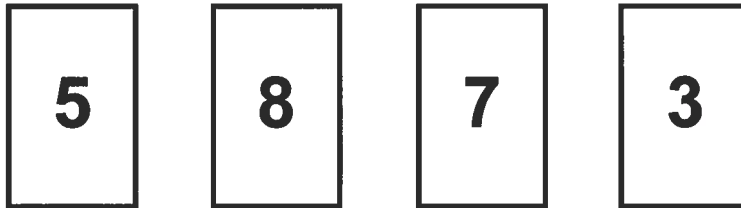
Shade in just **one of each** of the different tiles.

Number Cards

This problem gives you the chance to:

- show understanding of whole numbers

George has four number cards.



1. What is the largest four-digit number George can make with his cards?

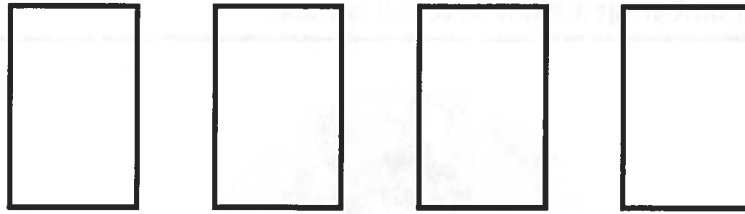
Four empty rectangular boxes are arranged horizontally, intended for the student to write the largest four-digit number possible using the cards.

2. a. What is the largest **even** number George can make using all four cards?

Four empty rectangular boxes are arranged horizontally, intended for the student to write the largest even number possible using all four cards.

b. Explain to George how he can make the largest possible even number using his four number cards.

3. a. What is the four-digit number closest to 4000 that George can make using his four cards?



- b. Show your work.

4. a. Complete this calculation:

$$5738 + \boxed{}\boxed{}\boxed{} = 6000$$

- b. Show how you figured it out.

Sponsored Walk

This problem gives you the chance to:

- choose and use number operations in a real context
-



Students at the Mountain View Elementary School do a sponsored walk.

1. Jack is sponsored for \$6 for each lap.

Bill is sponsored for \$4 for each lap.

Jack and Bill each do 5 laps.

How much money do Jack and Bill raise in all?

\$ _____

Show your work.

2. Maria does 6 laps.

She raises \$30.

How much for each lap was she sponsored?

\$ _____

Show how you figured it out.

3. Sarah wants to raise at least \$20.

She is sponsored for \$3 for each lap.

What is the least number of whole laps she must walk? _____

Explain how you figured it out.

Teddy Bears

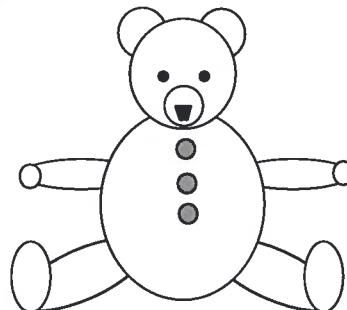
This problem gives you the chance to:

- find and use number patterns

Kate makes teddy bears.

Each bear needs

- 2 eyes
- 1 nose
- 3 buttons



1. Fill in the missing numbers in this table.

Number of teddy bears	Number of eyes	Number of noses	Number of buttons
1	2	1	3
2	4		6
5		5	15
10	20	10	
	24		

2. Kate has 26 teddy bear eyes, 11 noses and 24 buttons.

How many teddy bears can she make? _____

Explain how you decided.
