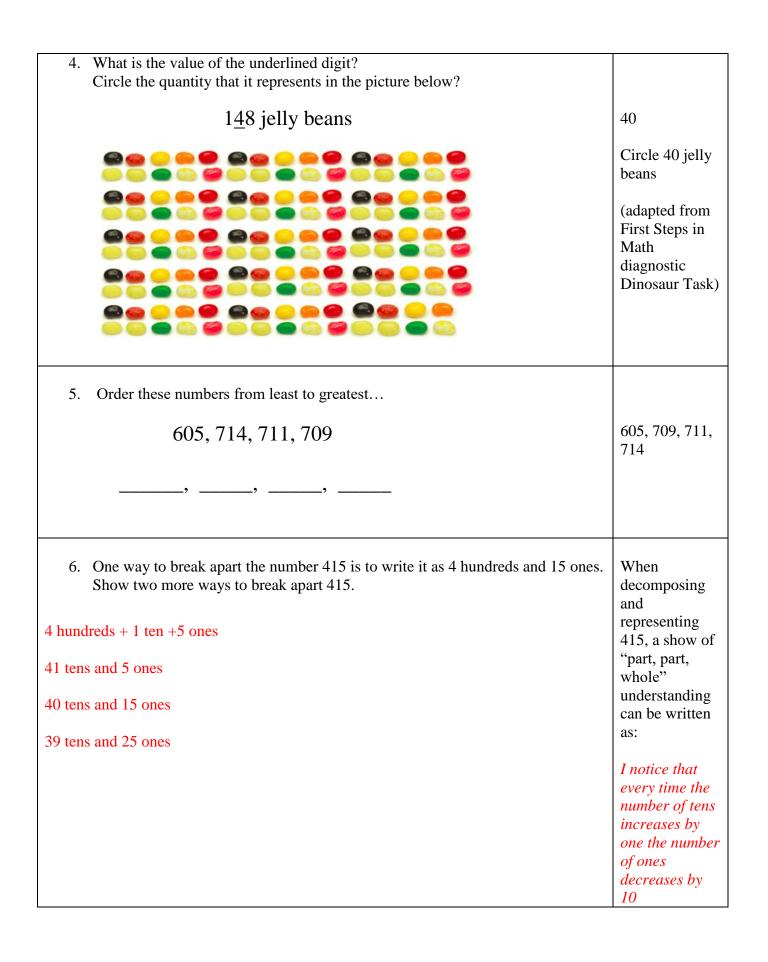
Island Numeracy Assessment Grade 3+: Number Sense (Answer Key)

Assessment Question:	Answer Key
Write the number the teacher says. Here is an example: If the teacher says one hundred nineteen, you write 119. .	78 113 40 906
A B	Teacher says the number and students write the numeral.
C D	(extensions – 1080, 5009 write the number that comes after 5009)
2. What number is shown by the blocks?	530
3. What number is shown by the dots below?	406

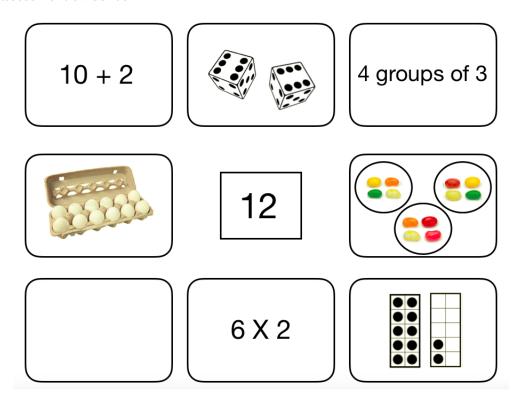


Performance Task:

- Choose a number from the following: 24, 18, 36, 144, 45, 15
- Write your chosen number inside the centre box.
- Represent the number in pictures, numbers, and words in the surrounding boxes.

Assessment considerations:

- Project the sample below for discussion (and then put it away)
- Ask students what they notice, think, wonder...
- Then, invite students to think of one more representation for the bottom left corner
- For students familiar with representing numbers in a variety of ways, frontloading with this sample will not be necessary.
- Consider photocopying the blank number mat double-sided to allow for pre- and postassessment evidence

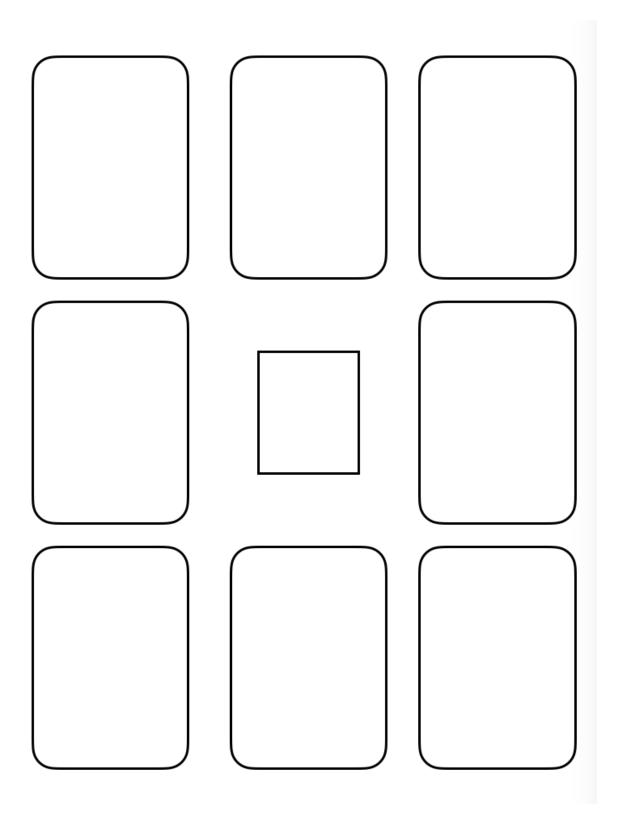


Singapore Bar Model Representation:



This models partitioning

This models decomposing



Performance Task: (project image)

How many mini marshmallows might be in a full bag	of marshmallows?
What is a reasonable but too low estimate?the window of the bag I count in groups of 10 and I kn	· · · · · · · · · · · · · · · · · · ·
What is a reasonable but too high estimate?could be my too high estimate because I know a jelly be marshmallows are less than 1g. I noticed this bag is 4400. I don't think there is double that amount though.	bean is about 1g and I believe mini 00g so I believe there are a lot more than

What information would be helpful to know for solving this investigation? (I would need to know how many marshmallows in part of the bag to help me figure out how many marshmallows might be in the full bag.)



Performance Task:

How many mini marshmallows might be in a full bag of marshmallows?



Performance Task:



This is a 400g bag of mini marshmallows



75 mini marshmallows = 50 g



What is a	reasonable	but	too	low
estimate?				

What is a reasonable but too high estimate?

Using pictures, numbers and words, show how many mini marshmallows are in the full bag

A full bag has about 600 marshmallows.

If 50 g = 75 mini marshmallows I can figure out that there are 150 marshmallow in 100g. If I multiply 150 by 4 it equals 600

or

If I skip count on a number line I can make skips of 50 eight times and that would equal one bag (400g). Then I need to skip count eight times by 75 to figure out how many are in a full bag. 0,75,150,225,300,375,450,525,600.

In 100g there are 150 marshmallows. If I figure out 4 groups of 150 I will have the total number of marshmallows.

Collaborative Task

1.	A student is asked how many tens are in the number 412.
	Do you think that there is more than one answer?
	Yes, you could draw base ten blocks to show 410 and 2 ones (so there are a lot more tens). You could also show 40 tens and 12 ones.
	Or
	No there is only a 1 in the tens place. I can draw base ten blocks or show 4 hundreds, 1 ten and 2 ones
	Draw a picture to show your thinking?
2.	How are the sevens in 737 different?
	Sample response: the 7 is in the hundreds place and is worth 700. But the 7 in the ones place is worth only 7
	OR
	the 7 on the left is worth more than the 7 on the right. Place value grows as you move to the left.