Name _____ Date _____

Master 6.11

Step-by-Step 1

Lesson 1, Question 5

Step 1 Here is Jack's watch when he left home:

What time is it? ___:___:___

Here is Jack's watch when he got to his friend's house:

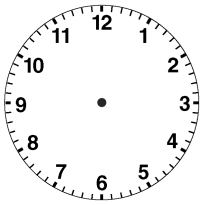
What time is it? ___:___:___

Step 2 How long did it take Jack to get to his friend's house? _____

Step 3 What time did Jack get to his friend's house? ___:___:___

He left 30 s later. What time did Jack leave? ___:___:___

Step 4 Draw what Jack's watch looked like after the 30 s.



Step 5 How long do you think it took Jack to return home? Explain.

_____

_____

Name _____ Date _____

Master 6.12

Step-by-Step 2

Lesson 2, Question 7

Step 1 Think about the roads the Cheung family might take.
On some roads, the family could drive 100 km in 1 h.
On other roads, the family could drive: 80 km in 1 h; or 60 km in 1 h; or even 50 km in 1 h.
Fill in the table with possible distances and times. The first line is done for you.

Distance	Time
100 km	1 h

Total: 500 km

Step 2 How much time would the Cheung family spend driving? _____

Step 3 Think about some stops the Cheung family might make along the way. Record all of them in the table.

Stop	Time Spent
Rest stop	15 min
Lunch	1 h

Total:

Step 4 How much time would the Cheung family spend on these stops? _____

Step 5 What would be the total time for the Cheung family to reach the vacation resort? _____

Name _____ Date _____

Master 6.13

Step-by-Step 4

Lesson 4, Question 8

Use play money if it helps.

Step 1 How much money does the man start with? _____
How much money does he have when he gets to the mall? _____

Step 2 Subtract to find the money he lost.

_____ – _____ = _____

Step 3 How many ways can you make the amount in *Step 2* using exactly 4 bills? Fill in the table.

Number of Bills	$50	$20	$10	$5	Total Value
4					
4					
4					

Step 4 Think about some other bills and coins that would make up this amount.
Which of these ways uses exactly 4 bills?

_____

Step 5 List 3 different sets of bills and coins the man might have lost.

_____

_____

_____

Name _____ Date _____

Master 6.14

Step-by-Step 5

Lesson 5, Question 5

Step 1 Start counting Michel's money. Fill in the table.

Bill	Number of Bills	Value
$20		
$10		

Step 2 How much money does Michel have with the $20 and $10 bills? _____

Step 3 The aquarium costs $82.27.
Does Michel have enough money? _____

Did you need to count all the money to find out? _____

Explain. _____

Step 4 Which bills and coins could Michel use to pay for the aquarium?

_____

What is the total value of these bills and coins? _____

Step 5 How much change would Michel get? _____

Step 6 Pick another set of bills and coins Michel might use to pay. What is his change now?

_____

Name _____ Date _____

Master 6.15

Step-by-Step 6

Lesson 6, Question 4

Step 1 A benchmark is something you use as a reference.
Which container would make a good benchmark? _____

Should you choose the smallest container? The largest?

_____

Which will you pick as your benchmark? _____

Step 2 Choose another container. _____

Do you think it would hold more or less water than your benchmark

container? _____

Would it hold the same amount? _____

How do you know? _____

Step 3 Repeat *Step 2* for each container.

Step 4 Sort the containers into these sets:
greater capacity than the benchmark container: _____

lesser capacity than the benchmark container: _____

capacity equal to the benchmark container: _____

Step 5 For each container:
Fill the container with water.
Do you think this water is more or less than the water your benchmark container will hold? How can you check?

_____

_____

_____

Name _____ Date _____

Master 6.16

Step-by-Step 7

Lesson 7, Question 4

Step 1 Use 18 centimetre cubes to build a rectangular prism.
Build a prism that is only 1 cube high.
How many different prisms can you make? Fill in the table.

Length	Width	Height
18	1	1
9		1
		1

Step 2 Build a prism that is 2 cubes high.
How many different prisms can you make? _____

Step 3 Build a prism that is 3 cubes high.
How is this the same as another prism you already made?

_____

Step 4 How many different prisms can you make using all 18 cubes?

_____

Step 5 Each prism you built has 18 centimetre cubes.
What is the volume of each prism?

_____

Name _____ Date _____

Master 6.17

Step-by-Step 8

Lesson 8, Question 3

Step 1 Look around the classroom. Find 2 different objects with about the same volume. Label the objects B and C.

Step 2 Partially fill a container with water.
Mark the water level as A.
Submerge object B. Mark the new water level as B.

Step 3 Remove object B.
Use a graduated cylinder.
Fill the container to the level marked B.

How much water have you added? _____

What is the volume of object B? _____

Step 4 Submerge object C in the container.
Mark the new water level as C.
Remove object C.
Use a graduated cylinder.
Fill the container to the level marked C.
How much water have you added? _____

What is the volume of object C? _____

Step 5 Do objects B and C have about the same volume? Explain.

_____

_____

Do objects need to have the same shape to have the same volume? Explain.

_____

_____

Name _____ Date _____

Master 6.18

Step-by-Step 9

Lesson 9, Question 6

Step 1 Suppose Peter eats peanut butter and jelly sandwiches for lunch every school day for 40 weeks.
There are 5 school days each week.
How many lunches would Peter need?

_____

Step 2 Peter uses 40 g of peanut butter per sandwich.
In 40 weeks, how many grams of peanut butter would Peter use?

_____

What is this mass in kilograms? _____

Step 3 Peter uses 30 g of jelly per sandwich.
In 40 weeks, how many grams of jelly would Peter use? _____

What is this mass in kilograms? _____

Step 4 How many 1-kg containers of peanut butter would Peter use

in 40 weeks? _____

How many 1-kg containers of jelly would Peter use in 40 weeks?

_____

Name _____ Date _____

Master 6.19

Step-by-Step 10

Lesson 10, Question 6

Step 1 One sheet of paper has a mass of about 5 g.
There are 500 sheets of paper in 1 package.
What is the mass of 1 package of paper in grams? _____

What is the mass in kilograms? _____

Step 2 What is the mass of 2 packages of paper? _____

Step 3 There are 10 packages of paper in a box.
What is the mass, in kilograms, of 1 box of paper? _____

Step 4 How many kilograms are in 1 t?

1 t = ___ kg

Step 5 How many boxes of paper would it take to make 1 t? _____

How do you know? _____

_____