Name: _____

Grade 6 Measurement

Lesson 6-1: Time Zones

Use the time zone maps in Lesson 1.

1. It is 3:00 p.m. in Calgary, Alberta. It is Canada Day.
What time is it in each city?
a) Hamilton, Ontario
b) Sydney, Nova Scotia
c) Whitehorse, Yukon

2. It is 11:00 p.m. in Winnipeg, Manitoba. It is November 1st.
What time is it in each city?
a) Charlottetown, Prince Edward Island
b) St. John, New Brunswick
c) Laval, Quebec

Lesson 6-2: The 24-Hour Clock

1. **a)** A train leaves London, Ontario, at 09:30 and arrives in Quebec City, Quebec, at 23:15. How long is the trip?
b) A plane departs at 22:45 and lands at 08:10.
How long is the flight?

2. The table shows a flight schedule.
Fill in the missing times.

Departure	Arrival	Flying Time
06:25	13:40	
11:30		6 h 48 min
16:08		4 h 27 min
	18:52	9 h 20 min
	02:35	3 h 42 min

Lesson 6-3: Money to $10 000

1. Estimate each sum or difference.
Show your work.

a) $4491.50 + $1628.85

b) $6231.25 – $3214.68

c) $3452.49 + $5483.38

2. This is Taylor's bank account statement for February.
She started with a balance of $9278.46.

Date	Description	Withdrawal	Deposits
Feb. 3	Car payment	$620.60	
Feb. 7	Credit card bill	$489.22	
Feb. 12	Paycheque		$1674.32
Feb. 12	Hydro bill	$264.81	
Feb. 19	Theatre tickets	$147.68	
Feb. 22	Cheque from Aunt Marion		$50.00
Feb. 26	Paycheque		$1674.32

What is the balance at the end of the month? Show your work.

Lesson 6-5: Surface Area of a Rectangular Prism

1. Find the surface area of a rectangular prism with each set of dimensions.

a) length 12 cm, width 5 cm, height 4 cm
b) length 21 cm, width 10 cm, height 15 cm
c) length 8.0 m, width 2.1 m, height 3.9 m

2. A piece of wrapping paper is 1 m by 1 m.
Raymond needs to wrap a box with dimensions 40 cm by 35 cm by 45 cm.
Does Raymond have enough paper to wrap the box? Explain.

Lesson 6-6: Volume of a Rectangular Prism

1. Find the volume of a rectangular prism with each set of dimensions.
a) length 15 cm, width 4 cm, height 9 cm
b) length 23 m, width 18 m, height 31 m
c) length 33 cm, width 10.5 cm, height 55 cm

2. How many different rectangular prisms can you make with volume 27 cm^3?
Each prism must have whole-number dimensions.
Sketch and label each prism you find.

Lesson 6-7: The Cubic Metre

1. Suggest an appropriate unit to measure each item.
a) the area of a rug
b) the space in a refrigerator
c) a marathon route

2. A box has length 0.5 m, width 1.5 m, and height 2 m.
Is the volume of the box less than, greater than, or equal to 1 000 000 cm^3?
Explain how you know.

Lesson 6-8: Capacity and Volume

1. Copy and complete.

a) 3600 mL = ☐ L
b) 9.9 L = ☐ mL
c) 7 m^3 = ☐ cm^3
d) 650 000 cm^3 = ☐ m^3
e) 120 mL = ☐ cm^3
f) 7720 L = ☐ m^3

2. A lawn mower needs 250 mL of oil for every 8 L of gasoline.
When 1 L of oil is used, how much gasoline is needed?

Lesson 6-9: Relating Units of Mass

1. Convert 65 t to kilograms and grams.

2. Copy and complete.

a) 4290 g = ☐ kg

b) 21 kg = ☐ t

c) 1.952 t = ☐ kg

d) 5002 kg = ☐ g

e) 9834 mg = ☐ g

f) 5.91 g = ☐ mg

3. Write each mass using two different units.

a) 7.6 kg **b)** 125 g **c)** 912 000 mg **d)** 8.4 t