

Extra Practice 1**Lesson 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 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

Extra Practice 2**Lesson 3: Money to \$10 000**

1. Estimate each sum or difference.

Show your work.

$$\begin{array}{r} \text{a) } \$4491.50 \\ + \$1628.85 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b) } \$6231.25 \\ - \$3214.68 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c) } \$3452.49 \\ + \$5483.38 \\ \hline \end{array}$$

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 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.

Extra Practice 3**Lesson 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 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 $1\,000\,000 \text{ cm}^3$?
Explain how you know.

Extra Practice 4

Lesson 8: Capacity and Volume

1. Copy and complete.

a) $3600 \text{ mL} = \square \text{ L}$

b) $9.9 \text{ L} = \square \text{ mL}$

c) $7 \text{ m}^3 = \square \text{ cm}^3$

d) $650\,000 \text{ cm}^3 = \square \text{ m}^3$

e) $120 \text{ mL} = \square \text{ cm}^3$

f) $7720 \text{ L} = \square \text{ m}^3$

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 9: Relating Units of Mass

1. Convert 65 t to kilograms and grams.

2. Copy and complete.

a) $4290 \text{ g} = \square \text{ kg}$

b) $21 \text{ kg} = \square \text{ t}$

c) $1.952 \text{ t} = \square \text{ kg}$

d) $5002 \text{ kg} = \square \text{ g}$

e) $9834 \text{ mg} = \square \text{ g}$

f) $5.91 \text{ g} = \square \text{ mg}$

3. Write each mass using two different units.

a) 7.6 kg

b) 125 g

c) 912 000 mg

d) 8.4 t

Extra Practice Sample Answers

Extra Practice 1 – Master 6.22

Lesson 1

- a) 5:00 p.m. b) 6:00 p.m. c) 2:00 p.m.
- a) 1:00 a.m. the next day
b) 1:00 a.m. the next day
c) 12:00 midnight

Lesson 2

- a) 13 h 45 min
b) 9 h 25 min

2.	Departure	Arrival	Flying Time
	06:25	13:40	7 h 15 min
	11:30	18:18	6 h 48 min
	16:08	20:35	4 h 27 min
	09:32	18:52	9 h 20 min
	10:53	02:35	3 h 42 min

Extra Practice 2 – Master 6.23

Lesson 3

- Estimates may vary.
a) $\$4500 + \$1600 = \$6100$
b) $\$6200 - \$3200 = \$3000$
c) $\$3450 + \$5500 = \$8950$
- $\$11\,154.79$

Lesson 5

- a) 256 cm^2 b) 1350 cm^2 c) 112.38 m^2
- The area of the wrapping paper is 1 m^2 or $10\,000\text{ cm}^2$. The surface area of the box is 9550 cm^2 .
Raymond has enough paper to cover the box, but the net of the box will not fit on the wrapping paper. This means that Raymond will have to cut and paste or tape pieces of wrapping paper to the box.

Extra Practice 3 – Master 6.24

Lesson 6

- a) 540 cm^3 b) $12\,834\text{ m}^3$ c) $19\,057.5\text{ cm}^3$
- There are three different rectangular prisms with volume 27 cm^3 : 1 cm by 3 cm by 9 cm; 1 cm by 1 cm by 27 cm; and 3 cm by 3 cm by 3 cm

Lesson 7

- a) cm^2 or m^2 b) cm^3 or L c) km
- Since the product of the length and height is $0.5 \times 2 = 1$, and the width is 1.5, the volume will be greater than 1 m^3 .

Extra Practice 4 – Master 6.25

Lesson 8

- a) 3.6 L b) 9900 mL
c) $7\,000\,000\text{ cm}^3$ e) 0.65 m^3
e) 120 cm^3 f) 7.72 m^3
- 32 L

Lesson 9

- 65 000 kg, 65 000 000 g
- a) 4.290 kg b) 0.021 t
c) 1952 kg d) 5 002 000 g
e) 9.834 g f) 5910 mg
- a) 7600 g, 0.0076 t
b) 0.125 kg, 125 000 mg
c) 912 g, 0.912 kg
d) 8400 kg, 8 400 000 g