

Answer Key

CHAPTER 1

UNIT PRICING AND CURRENCY EXCHANGE

1.1 PROPORTIONAL REASONING

BUILD YOUR SKILLS, P. 11

- $\frac{1}{4}$
 - $\frac{1}{3}$
 - $\frac{4}{9}$
 - $\frac{2}{5}$
 - $\frac{1}{8}$
- $x = 8$
 - $x = 1542$
 - $x = 276$
- 500 mL
- 3:1
- 4:9
- 1:1.13
- 1:4
- 1:32
- 20 cups of flour and 10 cups of shortening
- 10.4 L of the first chemical and 34.6 L of the second chemical
- Cheryl will use 15 L of paint and 9 L of thinner

- \$65.00:3 months, \$65.00/3 months,
or $\frac{\$65.00}{3 \text{ months}}$
- \$74.00:8-hour day, \$74.00/8-hour day,
or $\frac{\$74.00}{8\text{-hour day}}$
- 1 cm:2500 km
- \$5.57/350 g
- 75 g
- approximately 6.9 kg

PRACTISE YOUR NEW SKILLS, P. 21

- $x = 16$
 - $x \approx 6.5$
 - $x = 42$
 - $x = 63$
 - $x = 29$
 - $x \approx 52.1$
 - $x \approx 0.5$
 - $x = 60$
- $\frac{20}{3}$
 - $\frac{1}{5}$
 - $\frac{2}{1}$
 - $\frac{4.8}{1}$
- 8 drops of yellow pigment
- 30 cm
- 5 cans of paint
- The smaller gear has 24 teeth.
- It will take Stephie approximately 11 minutes; this is a rate problem.
- 2.25 cups or $2\frac{1}{4}$ cups of flour
- 1020 parts

1.2 UNIT PRICE**BUILD YOUR SKILLS, P. 27**

- \$0.85
- \$0.095 or about 10 cents
- a) approximately \$1.70
b) \$3.80
- The first package is the better deal.
- A dozen muffins for \$14.99 is a better buy.
- Buying pieces of 6-foot lumber is a better deal.
- a) The first roll is less expensive per foot.
b) The difference in price is \$0.01 per foot.
- \$23.10
- \$52.32

PRACTISE YOUR NEW SKILLS, P. 32

- a) approximately \$0.71
b) \$10.10
- a) at least 84 m² (the area of the room)
b) \$684.60
- a) \$160.00
b) \$5.00/sq ft
- a) \$10.44
b) 3 cases cost \$84.48; each brush costs \$4.69
- 8 oz of Brie cheese for \$4.95 is a better buy.
- a) 54 loaves
b) \$270.00
- You would save \$0.0014/mL.

- A carton of 18 is a better buy, by \$0.14 per unit.

1.3 SETTING A PRICE**BUILD YOUR SKILLS, P. 37**

- a) 0.78 b) 0.93
c) 1.25 d) 3.24
e) 0.005 f) 0.0038
g) 0.012 h) 1
- a) 45 b) 675
c) 98 d) 42
e) 3.9 f) 0.525
g) 112 h) 33.75
- a) 20% b) 33.3%
c) 162% d) 20%
e) 8.3% f) 1250%
- \$562.50
- \$1.81
- \$187.92
- \$15.75
- \$104.95
- \$1048.93
- \$44.64
- GST: \$2.30; PST: \$2.75
- \$74.26
- \$26.65

PRACTISE YOUR NEW SKILLS, P. 46

1. a) 3.6 b) 22
c) 304 d) 47.25
2. a) \$50.75 b) \$304.50
3. 135%
4. \$495.49
5. \$20.10
6. \$21.56
7. Harry will save \$1.11 by buying the MP3 player in Alberta.

1.4 ON SALE!**BUILD YOUR SKILLS, P. 50**

1. \$296.99
2. \$1.79
3. \$249.99
4. \$17.46
5. \$37.85
6. \$255.00
7. about 14%
8. 20%
9. 17%
10. \$109.52
11. \$206.21
12. a) \$112.97 b) 40%

PRACTISE YOUR NEW SKILLS, P. 56

1. \$1481.85
2. a) \$14.99 b) \$34.99
3. \$6.59
4. \$59.95
5. a) \$669.75 b) \$2679.02
6. approximately 30%
7. a) \$87.45 b) \$96.20
c) \$34.98 d) \$38.48
e) \$57.72 f) 60%

1.5 CURRENCY EXCHANGE RATES**BUILD YOUR SKILLS, P. 60**

1. 90 038.95 Ft
2. £118.22
3. 535.41 kr
4. €215.40
5. 421.68 SFr
6. 1236.10 Trinidad and Tobago dollars
7. a) approximately 345.81 Brazilian reals
b) approximately 1742.27 Moroccan dirhams
c) approximately 1544.55 Ukrainian hryvnia
d) approximately 639.78 Polish zloty
8. \$339.69 CAD
9. \$176.21 CAD

10. \$88.48 CAD
11. You will get more units of the currency than of Canadian dollars.
12. \$384.48 CAD
13. \$32.57
5. \$47.74 CAD
6. \$5.30 CAD
7. \$28.84

PRACTISE YOUR NEW SKILLS, P. 67

1. a) 47 746 Japanese yen
b) 705 Turkish Lira
c) 340 euros
d) 3215 Chinese yuan
e) 3659 Hong Kong dollars
2. a) 6112 Mexican pesos
b) 5322 Estonian kroon
c) 374 British pounds
d) 54 213 South Korean won
e) 21 784 Indian rupees
f) 14 178 Russian rubles
3. a) \$91.63 CAD
b) \$638.09 CAD
c) \$367.52 CAD
d) \$466.54 CAD
4. a) \$552.21 CAD
b) \$193.95 CAD
c) \$344.29 CAD
d) \$26.45 CAD

CHAPTER TEST, P. 70

1. 42 L
2. a) 5.5 L/100 km, 5.5 L:100 km, or $\frac{5.5 \text{ L}}{100 \text{ km}}$
b) 22 L
3. 296 km
4. \$3.25
5. \$14.43
6. \$2.87/dozen
7. a) \$1105.97
b) No. The original price is reduced by 35%, and then the sale price is reduced by 20%.
8. 9%
9. 62%
10. \$103.80
11. \$177.00 CAD
12. a) €306.10
b) \$183.76 CAD