

# Skills Practice BLM Answers

## SP BLM 1 Fractions, Decimals, and Percents

1. a) 40¢, \$0.40

b)  $\frac{40}{100} = \frac{2}{5}$

c) 100, 40%

2. a) 12

b) 3

c) 9

d) 6

e) 33%

f)  $\frac{2}{12}$  or  $\frac{1}{6}$

3. Answers are in *italics*.

Fraction	Decimal	Percent
$\frac{1}{5}$	0.20	20%
$\frac{2}{5}$	0.40	40%
$\frac{3}{5}$	0.60	60%
$\frac{4}{5}$	0.80	80%
$\frac{1}{4}$ or $\frac{25}{100}$	0.25	25%
$\frac{1}{2}$ or $\frac{50}{100}$	0.50	50%
$\frac{3}{4}$ or $\frac{75}{100}$	0.75	75%
$\frac{9}{10}$ or $\frac{90}{100}$	0.90	90%
$\frac{95}{100}$	0.95	95%
$\frac{1}{6}$	0.17	17%
$\frac{2}{6}$	0.33	33%
$\frac{3}{6}$	0.5	50%
$\frac{4}{6}$	0.67	67%
$\frac{5}{6}$	0.83	83%
$\frac{1}{10}$ or $\frac{10}{100}$	0.10	10%
$\frac{6}{10}$ or $\frac{60}{100}$	0.60	60%

Fraction	Decimal	Percent
$\frac{100}{100}$	1.00	100%
$\frac{29}{100}$	0.29	29%
$\frac{47}{100}$	0.47	47%

## SP BLM 2 Equivalent Fractions

Example:  $\frac{6}{9}, \frac{4}{6}, \frac{2}{3}$

Equivalent fractions  $\frac{6}{9} = \frac{4}{6} = \frac{2}{3}$

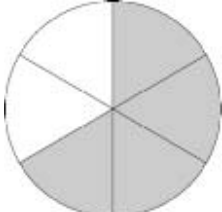
1. Sample equivalent fractions are shown.

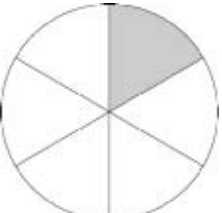
a)  $\frac{2}{4}$ ;  =  $\frac{1}{2}$

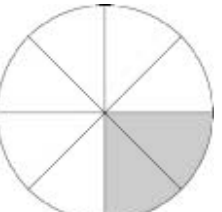
b)  $\frac{6}{8}$ ;  =  $\frac{3}{4}$

c)  $\frac{3}{15}$ ;  =  $\frac{1}{5}$

2. Sample equivalent fractions are shown.

a)  $\frac{2}{3}$ ;  =  $\frac{4}{6}$

b)  $\frac{2}{12}$ ;  =  $\frac{1}{6}$

c)  $\frac{1}{4}$ ;  =  $\frac{2}{8}$

3. Answers are in *italics*.

$\frac{1}{4} = \frac{2}{8} = \frac{3}{12} = \frac{5}{20} = \frac{10}{40} = \frac{25}{100} = \frac{200}{800} = \frac{250}{1000}$



**SP BLM 3 Comparing Rental Prices**

1. a) \$925  
b) Heat: \$0; hydro: \$0; water: \$0; parking: \$0  
c) \$925
2. a) Answers are in italics.

Expense	Billing Frequency	Rounded Amount per Bill	Annual Total Cost	Average Monthly Cost
Hydro	Bi-monthly	\$145	<i>\$870</i>	<i>\$72.50</i>
Heat	Monthly	\$85	<i>\$1020</i>	<i>\$85</i>
Water	Quarterly	\$210	<i>\$840</i>	<i>\$70</i>
Parking	Monthly	\$50	<i>\$600</i>	<i>\$50</i>

- b) \$1077.50
3. a) Global Rentals  
b) Maple Terrace Apartments  
c) Answers will vary. Example: The cost of utilities increases the monthly cost of living at a Global Rentals.  
d) Answers will vary. The ad for Global Rentals should include the average monthly cost for utilities in the ad.

**SP BLM 4 Writing a Cheque for Rent**

1. a) J. Consumer  
b) Maple Terrace Apartments  
c) \$925
2. Answers will vary. Example: So the issuer and recipient can ensure that the amount is accurate, and so no one can change the amount of the cheque to a different amount.
3. a) Year (4 digits), month (2 digits), day (2 digits)  
b) Answers will vary depending on the year. A possible response is 2010/04/24.  
c) Answers will vary depending on the year. A possible response is 2010/01/03.
4. a)

1. Student 192  
123 Main St.  
Capital, Ontario  
2010/04/24  
Pay to the Order of *Global Rentals* \$ *1600.00*  
*One thousand six hundred* /100 Dollars  
MATH Bank 3.14 159 2653 5897  
*J. Student*

b)

1. Student 193  
123 Main St.  
Capital, Ontario  
2010/06/01  
Pay to the Order of *Global Rentals* \$ *800.00*  
*Eight hundred* /100 Dollars  
MATH Bank 3.14 159 2653 5897  
*J. Student*

**SP BLM 5 Reading a Lease**

Answers will vary. The following are examples.

1. The lease is between M. Sanchez, who is the landlord, and Chantal Student, who is the tenant. Chantal will live in apartment B at 142 Main Circle.
2. Starting on May 8, 20\_\_, Chantal agrees to pay \$950 per month to rent the apartment. Rent is due on the first day of each month. She will also pay M. Sanchez a deposit of \$100.
3. Chantal agrees that she will not install any appliances or light fixtures or paint the apartment without obtaining permission from M. Sanchez.
4. Chantal is responsible for keeping her apartment clean, and is responsible for damage caused by her or her guests, other than normal wear and tear.
5. If Chantal fails to pay her rent on time, M. Sanchez may tell her that their agreement is no longer valid. The notice comes into effect 20 days after the due date of the rent.

**SP BLM 6 Reading a Utility Bill**

1. a) September 28  
b) October 28  
c) monthly
2. 51 26 42 10065 2
3. a) 17.3748¢  
b) 1.1 m<sup>3</sup>  
c) 66 m<sup>3</sup>  
d) \$11.47
4. Answers will vary. Example:
  - Use less hot water (if you have a gas water heater)
  - Open the windows to let sunlight warm the rooms.



**SP BLM 7 Identifying Tax Deductions and Tax Credits**

1. a) Yes  
b) Yes  
c) No  
d) Yes  
e) No  
f) No
2. Look for two allowable deductions.  
a) child care expenses  
b) CPP (if self-employed)
3. a) Yes  
b) Yes  
c) Yes  
d) Yes  
e) Yes  
f) Yes
4. Look for two allowable credits.  
a) public transit fees  
b) child fitness fees
5. Look for four allowable provincial credits.  
a) apprenticeship training  
b) property tax  
c) political contribution  
d) co-operative education

**SP BLM 8 Completing a Tax Return**

Note: Values will vary depending on the year.  
These values are based on 2009 tax rates and forms completed in 2010.

1. b) refund: \$114.01  
Employment income: Line 101: \$25 000.00  
Total income: Line 150: \$25 000.00  
Deductions: Line 233: \$3400.00  
Net income: Line 236: \$21 600.00  
Taxable income: Line 260: \$21 600.00  
Net federal tax: Line 420: \$1311.00  
Provincial tax: Line 428: \$774.99  
Total tax payable: Line 435: \$2085.99  
Income tax deducted: Line 437: \$2200.00  
Total credits: Line 482: \$2200.00  
Refund: Line 484: \$114.01  
Note: The refund includes consideration of the Ontario Health Premium of \$96 calculated on form ON428.

2. b) refund: \$148.22  
Employment income: Line 101: \$18 000.00  
Total income: Line 150: \$18 000.00  
Net income: Line 236: \$18 000.00  
Taxable income: Line 260: \$18 000.00  
Net federal tax: Line 420: \$713.70  
Provincial tax: Line 428: \$438.08  
Total tax payable: Line 435: \$1151.78  
Income tax deducted: Line 437: \$1300.00  
Total credits: Line 482: \$1300.00  
Refund: Line 484: \$148.22
- c) Janie would have the following refunds:
  - \$750: \$323.38
  - \$1000: \$391.14
  - \$1500: \$551.64
- d) The greatest tax refund is for the \$1500 contribution, so this is the best level of contribution for Janie.
- e) Answers may vary. Look for two advantages. Example:
  - You can reduce your taxes payable by contributing to an RRSP.
  - You can prepare for retirement.
3. Answers may vary. Example: Mark should track all the expenses related to his business and keep receipts so that he can use them to reduce his taxable income.

**SP BLM 9 Converting Between Imperial Measures**

1. a) 60 in.  
b) 108 in.  
c) 120"  
d) 24"
2. a) 29 inches  
b) 70 inches
3. a) 2 ft 8 in.  
b) 5 ft 5 in.  
Labels for ruler diagram between #3 and #4:  
 $\frac{4}{16}$  or  $\frac{1}{4}$ ,  $\frac{8}{16}$  or  $\frac{1}{2}$ ,  $\frac{10}{16}$  or  $\frac{5}{8}$ ,  $\frac{13}{16}$
4. a)  $\frac{1}{8}$ "  
b)  $\frac{1}{2}$ "  
c)  $\frac{3}{4}$ "



## Skills Practice BLM Answers

(continued)

5. Answers will vary. Example: I divided the numerator and denominator by the same number. Then, I checked to see if I could divide again. For example, in part c), I divided by 2 to get  $\frac{6}{8}$ , then I divided by 2 again to get  $\frac{3}{4}$ .

### SP BLM 10 Converting Between Metric Measures

1. a) m, km, mm, cm  
b) km, m, cm, mm
2. a) m  
b) mm  
c) 100
3. a) m  
b) km  
c) cm  
d) cm  
e) mm  
f) km  
g) m  
h) cm
4. a) 6 m  
b) 6 km  
c) 30 mm  
d) 300 cm  
e) 250 cm  
f) 4500 m
5. a) 250 m or 25 km  
b) 2 m or 220 cm  
c) 400 cm or 0.5 km  
d) 70 mm or 0.7 m

### SP BLM 11 Using Ratio and Proportion to Convert Measurements

1. a) 8  
b) 3 roses : 12 carnations  
4 roses : 16 carnations
2. a) Answers will vary. Example: You multiply the first number at the top of the proportion by 5, so multiply the first number on the bottom of the proportion by 5. She would get \$4.75.  
b) \$95  
c) \$190  
d) \$147.37

3. Answers are in italics.

Vinegar	Oil
<i>1 cup</i>	4 cups
30 mL	<i>120 mL</i>
<i>75 mL</i>	300 mL
$\frac{3}{4}$ cup	<i>3 cups</i>
<i>100 mL</i>	400 mL
2 cups	<i>8 cups</i>

4. Answers are in italics.

Rise	Run
<i>2 feet</i>	12 feet
15 in.	<i>90 in. = 7 ft 6 in.</i>
<i>1 metre</i>	6 metres
25 centimetres	<i>150 cm = 1.5 m</i>
<i>3 ft. 4 in.</i>	20 feet

### SP BLM 12 The 3–4–5 Method of Checking for a 90° Angle

1. a) The lengths of the sides are 1.5 cm, 2 cm, and 2.5 cm.  $1.5^2 + 2^2 = 2.5^2$ , so the triangle has a 90° angle.  
b) The lengths of the sides are 1.9 cm, 2.3 cm, and 3.1 cm.  $1.9^2 + 2.3^2 \neq 3.1^2$ , so the triangle does not have a 90° angle.  
c) The lengths of the sides are 4 cm, 4 cm, and 5.7 cm.  $4^2 + 4^2 \neq 5.7^2$ , so the triangle does not have a 90° angle.  
d) The lengths of the sides are 4.5 cm, 6 cm, and 7.5 cm.  $4.5^2 + 6^2 = 7.5^2$ , so the triangle has a 90° angle.

### SP BLM 13 Start Square and You'll Finish Square

- 1.–4. Ensure students measure carefully so that their lines in #1 and #2 meet in the centre.
5. Answers will vary. Possible responses include building a deck or framing a wall.
6. a) 3  
b) 4  
c) 5 cm



## Skills Practice BLM Answers

(continued)

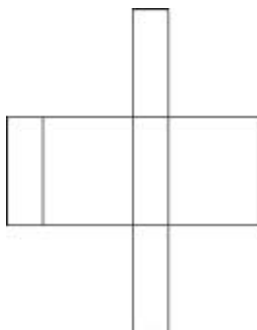
- e) Answers will vary depending on the desk.  
Students should be able to explain that the desk is square if the distance between the two marks is 5 cm.

### SP BLM 14 Calculating Surface Area

1.

2-D Shape	Area $A = l \times w$	# of Matching Faces	Total Area
A. Top/Bottom	12 ft <sup>2</sup>	2	24 ft <sup>2</sup>
B. Left/Right	8 ft <sup>2</sup>	2	16 ft <sup>2</sup>
C. Front/Back	24 ft <sup>2</sup>	2	48 ft <sup>2</sup>
Total Surface Area			88 ft <sup>2</sup>

2. a)



b)

2-D Shape	Area	# of Matching Faces	Total Area
Top/Bottom	75 cm <sup>2</sup>	2	150 cm <sup>2</sup>
Left/Right	95 cm <sup>2</sup>	2	190 cm <sup>2</sup>
Front/Back	285 cm <sup>2</sup>	2	570 cm <sup>2</sup>
Total Surface Area			910 cm <sup>2</sup>

3. a) 636 cm<sup>2</sup>  
b) 1526 in.<sup>2</sup>

4.

2-D Shape	Area	# of Matching Faces	Total Area
Front/Back Triangles	144 cm <sup>2</sup>	2	288 cm <sup>2</sup>
Left/Right Rectangles	900 cm <sup>2</sup>	2	1800 cm <sup>2</sup>
Bottom Rectangle	1620 cm <sup>2</sup>	1	1620 cm <sup>2</sup>
Total Surface Area			3708 cm <sup>2</sup>

5. a) 1234 cm<sup>2</sup>  
b) 130 yd<sup>2</sup>

6.

2-D Shape	Area	# of Matching Faces	Total Area
Top/Bottom Circles	28.26 in. <sup>2</sup>	2	56.52 in. <sup>2</sup>
Rectangle	152 in. <sup>2</sup>	1	152 in. <sup>2</sup>
Total Surface Area			208.52 in. <sup>2</sup>

7. a) 607.6 ft<sup>2</sup>  
b) 3732.2 mm<sup>2</sup>

