

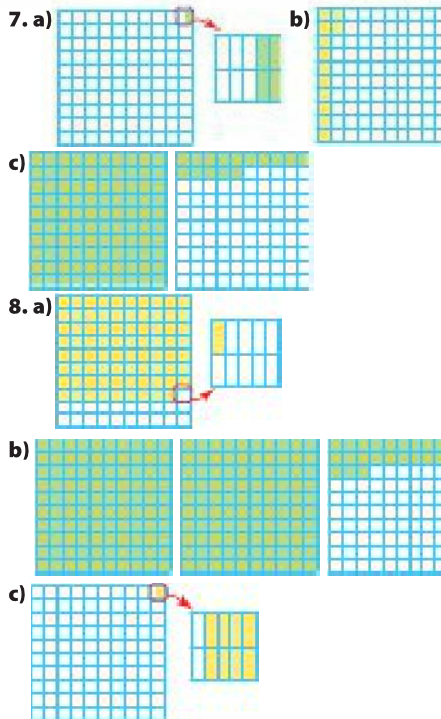
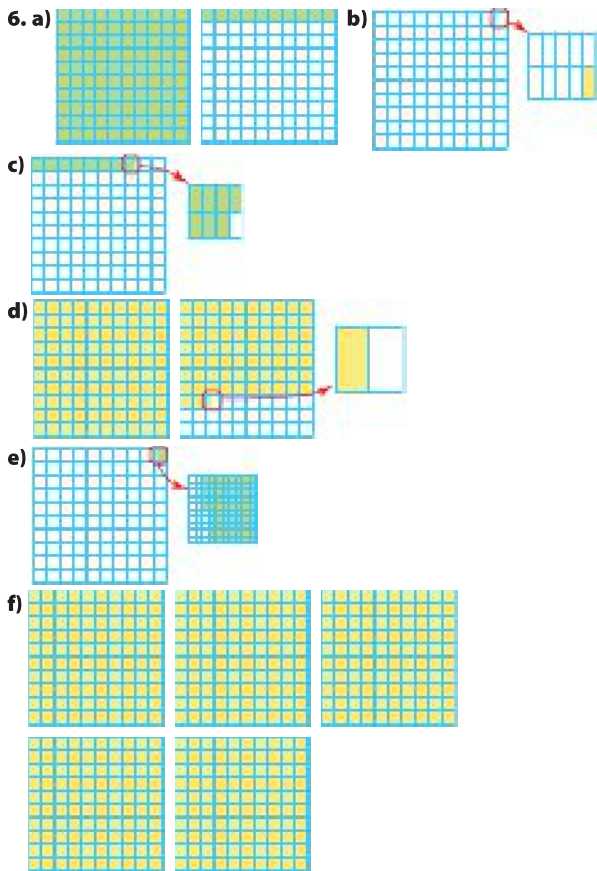
- 7. a)** 132 caribou **b)** The increase is not 30% because the 20% increase in the second year is based on the new population after the 10% increase in the first year.
- 8.** Answers may vary based on the PST rate in your province. Example: Based on a total tax of 12% (GST = 5% and PST = 7%):

Item Purchased	Price	Total Tax (12%)	Total Cost
a) Boots	\$119.99	\$14.40	\$134.39
b) Pants	\$89.99	\$10.80	\$100.79
c) Gloves	\$39.99	\$4.80	\$44.79
d) Helmet	\$189.99	\$22.80	\$212.79

- 9. a)** \$23 736 **b)** \$26 109.60
- 10.** \$362.10
- 11. a)** \$1060.90 **b)** 6.09%
- 12. a)** swim: approximately 2.9%; bike: approximately 77.7%; run: approximately 19.4%
- b)** approximately 97.1%
- 13.** 70%
- 14.** 8%

Chapter Review, pages 150–151

- 1.** percent **2.** fractional **3.** combined
- 4. a)** 2 **b)** 6 **c)** 15
- 5. a)** $\frac{7}{10}\%$ **b)** $\frac{3}{5}\%$ **c)** $50\frac{1}{4}\%$ **d)** 245%



9.

	Fraction	Decimal	Percent
a)	$\frac{23}{200}$	0.115	11.5%
b)	$\frac{19}{80}$	0.2375	$23\frac{3}{4}\%$
c)	$\frac{3}{200}$	0.015	1.5%
d)	$3\frac{17}{20}$	3.85	385%

- 10. a)** $\frac{110}{100} = \frac{11}{10}$ or 1.1 **b)** Answer may vary. Example:

It means that you must give more of an effort than you would normally.

- 11. a)** 0.955 or $\frac{955}{1000} = \frac{191}{200}$; Kyle scored $\frac{191}{200}$ on his

practice test. **b)** 1.4 or $\frac{140}{100} = \frac{7}{5}$; The store's sales

increased by a factor of 1.4. **c)** 0.009 or $\frac{9}{1000}$; By getting

your car tuned up, you can reduce emissions by 0.009 times the original amount.

- 12. a)** 264.5 **b)** 40.4 **c)** 0.1 **d)** 0.8 **e)** 7656 **f)** 500

13. 6.25 cm

14. \$5.50

15. a) 1814 trees **b)** fir: approximately 31%; pine: approximately 18%; larch: approximately 9%; cedar: approximately 5%; hemlock: approximately 37%

16. \$329.31

17. a) No, the populations did not increase by the same amount. In the second year, the 7% increase in Cedarville is applied to the new population after the initial year increase of 7%. In Pinedale, the 15% increase is applied to the initial population of 1200.

b) Cedarville: 1387 people; Pinedale: 1380 people