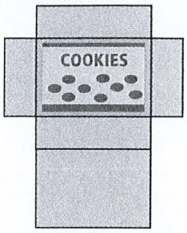
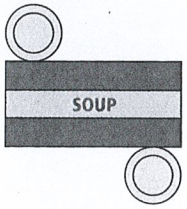
10. a) cylinder **b)** triangular prism **c)** rectangular prism

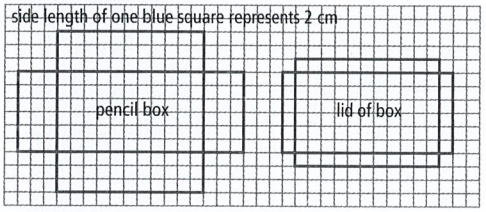
11. a) Answers may vary. Example:



b) Answers may vary. Example:



12. Answers may vary. Example:



13. a) 864 cm² **b)** 10.5 m²
14. 3648 mm²
15. a) 144 cm² **b)** 3865 cm²
16. 5309 cm²
17. 125.6 m²
18. 92.9 cm²
19. 19 939 cm²

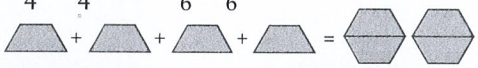
Chapter 6

6.1 Multiplying a Fraction and a Whole Number, pages 202–203

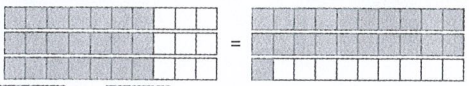
4. a) $4 \times \frac{1}{3} = \frac{4}{3}$ **b)** $3 \times \frac{2}{5} = \frac{6}{5}$

5. a) $2 \times \frac{5}{4} = \frac{10}{4}$ **b)** $4 \times \frac{1}{6} = \frac{4}{6}$

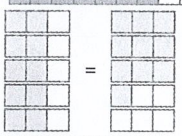
6. a) 2;



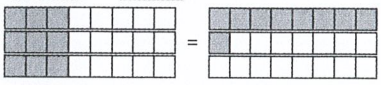
b) $\frac{21}{10}$;



c) $\frac{10}{3}$;



d) $\frac{9}{8}$;



7. a) $\frac{3}{8}$ **b)** $\frac{6}{4}$ **c)** $\frac{12}{5}$ **d)** $\frac{8}{3}$

8. $4 \times \frac{1}{2} = 2$; The width of the flag is 2 m.

9. $12 \times \frac{3}{4} = 9$; There are nine people on the minibus.

10. a) $\frac{1}{6}$ **b)** $6 \times \frac{1}{6} = 1$; The area of each face is 1 cm².

11. $12 \times \frac{5}{6} = 10$; Asma's car uses only 10 L of gasoline per 100 km.

12. $10\,000\,000 \times \frac{1}{5} = 2\,000\,000$; Nunavut is about 2 000 000 km².

13. a) 5; Example: Divide the previous product by two to continue the pattern. **b)** Answer may vary. Example: $9 \times 9 = 81$, $3 \times 9 = 27$, $1 \times 9 = 9$, $\frac{1}{3} \times 9 = 3$

14. Answers may vary. Example: Jane spends $\frac{1}{4}$ of her allowance on books. If Jane's allowance is $8 each week, how much does she spend on books? Answer: $\frac{1}{4} \times 8 = 2$; She spends $2 each week on books.

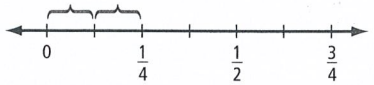
15. $30 \times \frac{4}{5} = 24$; Twenty-four students have brown eyes.

16. $15 \times \frac{1}{5} = 3$; The shortest side measures 3 cm.
$15 - 3 = 12$, $12 \div 2 = 6$; The other two sides measure 6 cm each.

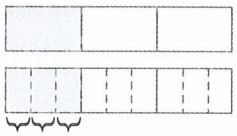
17. 341 cm

6.2 Dividing a Fraction by a Whole Number, pages 208–209

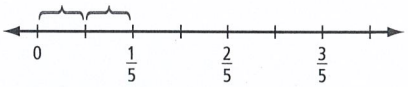
4. a) $\frac{1}{4} \div 2 = \frac{1}{8}$;



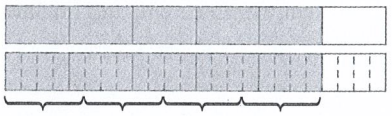
b) $\frac{1}{3} \div 3 = \frac{1}{9}$;



c) $\frac{1}{5} \div 2 = \frac{1}{10}$;



d) $\frac{5}{6} \div 4 = \frac{5}{24}$;



5. a) $\frac{3}{10}$ **b)** $\frac{1}{15}$ **c)** $\frac{1}{8}$ **d)** $\frac{1}{9}$

6. a) A serving of dhopa requires $\frac{1}{4}$ of a coconut.

b) A serving of molee curry requires $\frac{1}{8}$ of a coconut.

7. Each student gets $\frac{1}{6}$ of a full pitcher.

8. Each of these provinces represents $\frac{1}{15}$ of the area of Canada.

9. a) She averages $\frac{1}{12}$ of an hour per lap. **b)** 5 min

10. He averages $\frac{1}{15}$ of a tank per round trip.

11. Vancouver has frost on about $\frac{3}{20}$ of the days in a year.

12. It takes $\frac{2}{5}$ of a roll to wrap three packages.