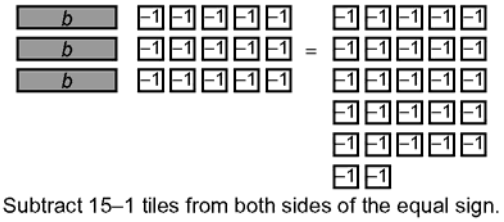
ML8 Chapter 11 Warm-Up Answers

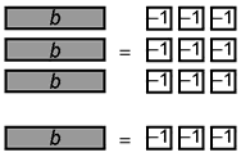
BLM 11–3 Chapter 11 Warm-Up

Section 11.1

1.



Subtract 15–1 tiles from both sides of the equal sign.



$b = 4$

2. $t = -10$

3. $m = -3$

4. $p = 14$

5. $d = -27$

6. $a = 7$

7. $a = -7$

8. $a = 7$

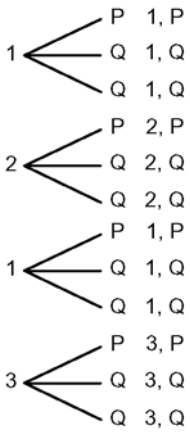
9. $a = 343$

10. $a = -343$

Section 11.2

1. $P(1) = \frac{1}{2}$, 0.5, or 50%

2.



3. $P(3 \text{ then Q}) = \frac{1}{6}$, $0.1\overline{6}$, or $16.\overline{6}\%$

4. $P(2 \text{ then P}) = \frac{1}{12}$, $0.08\overline{3}$, or $8.\overline{3}\%$

5. $P(1 \text{ then Q}) = \frac{1}{3}$, $0.3\overline{3}$, or $3.\overline{3}\%$

6. triangular prism

7. $\frac{5}{8}$ or 5 : 8

8. 10 : 5 : 8

9. 1600 cm^3

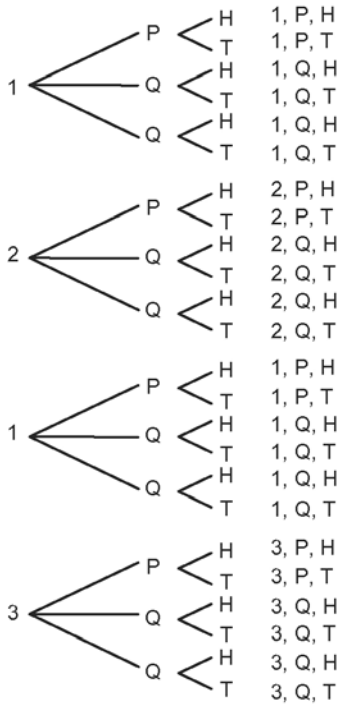
10. Area of 2 triangles = (10 × 16 ÷ 2) × 2 = 160; Area of 2 sides = 20 × 17 × 2 = 680; Area of bottom = 20 × 10 = 200; Total surface area = 1040 cm^2

Section 11.3

1. 12

2. 6

3.



24 possible outcomes

4. 4 × 3 × 2 = 24

5. $\frac{1}{6}$, $0.1\overline{6}$, or $16.\overline{6}\%$

6. 224%, $2\frac{6}{25}$

7. 9.81, $9\frac{81}{100}$

8. $0.91\overline{6}$, $91\overline{6}\%$

9. 1% of 2000 = 20; 0.5% of 2000 = 10; 1.5% of 2000 = 30. The new population is 1970.

10. a) 100 = 2 × 2 × 5 × 5; $\sqrt{100} = 10$

b) 12 × 12 = 144; 13 × 13 = 169; $\sqrt{150} \approx 12.2$ or 12.3

c) 15 × 15 = 225; 16 × 16 = 256; $\sqrt{230} \approx 15.1$ or 15.2