

# Answers

## 5.1 Practice B

1. 6 to 5; There are 6 circles for every 5 triangles.
2. 10 : 4; There are 10 triangles for every 4 circles.
3. 15 h                      4. 8 h                      5. 20 fl oz
  
6. 18 sixth graders; The ratio of sixth graders to seventh graders is 2 : 3, so each part is  $45 \div 5 = 9$ . So, there are  $2 \cdot 9 = 18$  sixth graders and  $3 \cdot 9 = 27$  seventh graders.
  
7. 6 years old, 12 years old, 15 years old
  
8. 84 beads                      9. a. 20 to 3    b. 160

# Answers

## 5.2 Practice B

1.

<b>Flutes</b>	10	5	20
<b>Clarinets</b>	8	4	16

10 : 8, 5 : 4, and 20 : 16

2.

<b>Green</b>	12	3	36
<b>Blue</b>	16	4	48

12 : 16, 3 : 4, and 36 : 48

3. 16 red velvet cupcakes

<b>Chocolate</b>	42	3	24
<b>Red Velvet</b>	28	2	16

4. purchase 30 songs

<b>Purchase</b>	40	5	30
<b>Free</b>	24	3	18

5. 8 was subtracted from each, rather than maintaining the ratio of 2 : 1.

<b>A</b>	64	56	48
<b>B</b>	32	28	24

# Answers

## 5.3 Practice B

1. *Sample answer:* 40 feet in 12 minutes
2. *Sample answer:* 100 apples in 22 baskets
3. 2 kittens per box
4. \$6 per hour
5. 8 biscuits per batch
6. 36 revolutions per seconds
7. equivalent
8. not equivalent
9. 4 fluid ounces per hour
10. 7.3 kilometers per year
11. Grade 6; Grade 7 needs 22 more books to have the same rate.
12. a. about 107.8 miles per hour  
b. about 0.0093 hour per mile  
c. nearly two miles per minute; 107.8 miles per hour is about 1.8 miles per minute.

# Answers

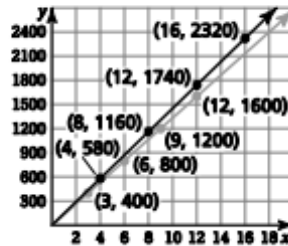
## 5.4 Practice B

1. A      2. B      3. A      4. A

5. The sodium level increases faster when you add ranch dressing.

Ranch	Tbsp	4	8	12	16
	mg Sodium	580	1160	1740	2320

Ketchup	Tbsp	3	6	9	12
	mg Sodium	400	800	1200	1600



6. a. 24 blueberries in the smallest possible salad

Old	Blueberries	5	10	15	20	25
	Cantaloupe	3	6	9	12	15

New	Blueberries	6	12	18	24
	Cantaloupe	4	8	12	16

- b. Charge more for the new salad because it contains more cantaloupe, which costs more.

# Answers

## 5.5 Practice B

1.  $\frac{7}{20}$     2.  $\frac{407}{500}$     3.  $2\frac{1}{10}$     4.  $\frac{1}{125}$
5. 74%    6. 84%    7. 18.75%    8. 47.5%
9. 325%    10. 250%    11. 180%    12. 514%
13. 30%    14. 37.5%    15.  $\frac{11}{20}$
16. 25%; You sold  $\frac{3}{4}$  of the cups and your friend sold  $\frac{1}{4}$ .
17.  $1\frac{1}{20}$ ; The perspective in the figure makes the Florida flag look taller, but the U.S. flag is actually taller than the Florida flag.

18. the reticulated python; The anaconda is 118% as long as the Burmese python, but only 115% as long as the reticulated python, so the reticulated python must be longer than the Burmese python.



The area of the smaller square is  $\frac{1}{4}$ , or 25%, the area of the original square.

20. 12 years

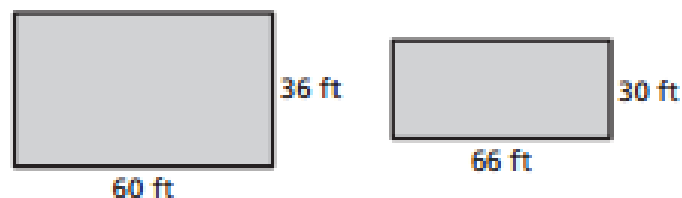
# Answers

## 5.6 Practice B

1. 24      2. 8      3. 17.5      4. 4.5  
5. 0.9      6. 39      7. 63.18      8. 14.84  
9. 120      10. 103.5      11. 1053.7      12. 149.5  
13. <      14. =      15. =      16. >  
17. 54 h      18. 4224 ft      19. 11.2 fl oz  
20. a. C    b. B    c. B

21. \$15; 45% is equal to 3 times 15%, so the discount is 3 times \$5, or \$15.

22. *Sample answer:*



23. 68%

24. \$17.28; no

# Answers

## 5.7 Practice B

1. 1.75

2. 000

3. 1.88

4. 14.99

5. 31.68

6. 401.81

7. 54.23

8. 7.63

9. 452.76

10. 4.68 kg

11. >

12. <

13. <

14. >

15. 159.6

16. 9.75

17. 533.33

18. 693.17

19. a. about 0.59 million kg, or 590,000 kg

b. about 0.50 million kg, or 500,000 kg

c. 1.98 km

20. a. about 103.52 mi/h

b. about 2777.78 m/min

c. less than

21. 51.3 L; You need  $0.75(18) = 13.5$  gallons, or 54 quarts of gas. This is equivalent to about 51.3 liters.