1. The 2-liter bottles are a better buy.

6 (2 Liter) bottles at $7.99 cost about $1.33 per bottle

10 (1/2 liter bottles) at $3.99 cost about $0.40 per bottle

A 1/2 Liter at $0.40 means that 1 Liter costs $0.80, which means 2 Liters cost $1.60.

**so the 2-Liter bottles are the better buy.**

2. Out of 5 animals, the ratio of cats is 2 to 5 , and the ratio of dogs is 3 to 5 . So of the 225 animals, 90 cats. 135 are dogs.

**3. a.** 297.5 cartons

**b.** 12.7 hours

4.

A. 174.75

B. 189.75

C. $28.46

D.$146.29

5. $135.59

6. $74.25

7. 45/137

8. 15/11

9. 1in/2ft or 5/168 change feet to inches

10. 6.51

11. Answers may vary. Equivalent ratio: 2 to 72

12. strawberries to raspberries is 3 to 18 or 1 to 6.

Strawberries to all fruit in smoothie is 3 to 21 or 1 to 7.

3 divided by 21 = about 14%

13. 2.99 divided by 6 = about $0.50

14. 48 divided by 12 = 4

226 x 4 = **904**

15. 25.2 km/h

16. a, False, it’s 1 to 4.

 b. True 30/120 = ¼ which is 25%

 c. True, 70/120 is more than ½ which means it’s more than 50%

17. a. 32 b. 10 c. 1 d. 12

18. 40 divided by 4 = 10

 10 \* 1.39 = **13.90**

19. Streamline: 1.99 divided by 6 = 0.33
 **Bulky = 6.99 divided by 24 = 0.29**

20. Streamline 8 pack for $1.39
 5 divided by 8 = 6.25, so we need 7 packs for 50 buns

 Bulky: 12 pack for 2.09

 50 divided 12 = 4.167, so we need 5 packs for 50 buns

 **Streamline is best**

 **A combo of 3 Bulky and 2 Streamline or 5 Streamline and 1 Bulky would suffice. Both 9.04.**

21. a. 80/16 = x/5; x = 25

b. 5 pretzels per 1 oz

c. 0.2 oz per 1 pretzel

22. 40 wild bird seed to 60 sunflower seed; 8 total cups in mix

Use the proportion 40/100 = x/8; x = 3.2 cups

23. Pencils per dollar or Dollars per pencil

24. a. 16 b. 24 c. 1 d. 9 e. 15 f. 21

25. a. 494/(262 +51+493) = 494/1195

 b. 378 times more

 c. about 32.5%

 d. 378/262 = 189/131

 e. 51 – 10 = 40

26. a. 70 min / 40 clients = x/60; x = 105

 b. x/50 = 70/40; x = 87.5