Math 65 Midterm Review Answers

1a) 1,970,000
1b) 2,000,000

2a) Identity for Addition
2b) Commutative Property of Multiplication

3. She received $8,921 more from business groups than from police & fire groups.

4. She received a total of $62,164 in contributions.

5. 405 square inches (405 sq. in.)

6. $3 \cdot 3 \cdot 3 \cdot 3 = 81$

7. Each employee will receive $152.

8. Prime: 2, 43;
Composite: 9, 42, 115;
Neither: 1

9. 2 and 5

10. 2 and 3

11. 9 is not a factor (6 + 1 + 8 = 15 is not a multiple if 9)

12. $108 = 2 \cdot 2 \cdot 3 \cdot 3 \cdot 3$; $108 = 2^2 \cdot 3^3$

13. 2

14. -3

15. -210

16. 7

17. -8

18. -5

19. 10

20. 14°F

21. -15°C

22. -6y

23. $-4p^3 - 4p$

24. $36k$

25. $-16m + 30$

26. $y = 9$

27. $y = -5$

28. $2x + 7 = -15$; The number is -11.

29. The newer machine created 215 copies, and the older machine created 135 copies.

30. The second side is 21 inches, and the third side is 14 inches.

31. 14

32. $\frac{k}{3h}$

33. $4\frac{3}{4}$

34. $\frac{53}{8}$

35. LCD = 90; $\frac{21}{90}$ and $\frac{16}{90}$

36. $\frac{2}{3}$

37. $\frac{4}{9}$

38. $1\frac{7}{8}$

39. $\frac{3}{4}m$ or $\frac{3m}{4}$

40. $\frac{3}{7}$

41. $6\frac{1}{6}$

42. $\frac{2}{3}$

43. $-\frac{1}{4}r^2$ or $-\frac{r^2}{4}$

44. $2\frac{1}{3}$

45. $x = -\frac{2}{3}$

46. $m = \frac{4}{9}$

47. Each team member must run $1\frac{3}{4}$ miles.

48. Kahlil surpassed his previous best by $1\frac{7}{16}$ inches.