

NYS Math 7 2008 Answer Key

Multiple Choice

- 1) D
- 2) B
- 3) B
- 4) C
- 5) B
- 6) B
- 7) D
- 8) D
- 9) C
- 10) B
- 11) D
- 12) B
- 13) A
- 14) B
- 15) A
- 16) C
- 17) B
- 18) D
- 19) B
- 20) C
- 21) B
- 22) D
- 23) D
- 24) C
- 25) B
- 26) B
- 27) D
- 28) A
- 29) D
- 30) A

31) 9 (must be shown as positive because it already said "drop")

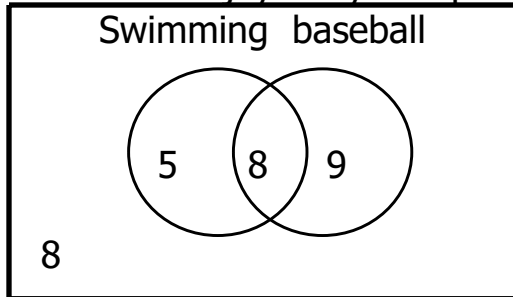
Part B: $-16+96$
80

$$32) \frac{30a}{30} = \frac{420}{30} \quad a=14$$

33) $4x - 5$

Part B: $4x - 5$
 $4(3) - 5$
 $12 - 5$
 7

34) Activities Enjoyed By Campers



Part B: I added up the students who only like swimming, who only like baseball and those who like both. I subtracted the total, 22, from the total number of campers asked, 30, and discovered that 8 students did not select an activity.

35) $V = lwh$
 $V = 8 \times 14.2 \times 23$
 $V = 2612.8$

Answer: 2613

Part B: $V = \pi r^2 h$
 $V = \pi \times 8^2 \times 23$
 $V = \pi \times 64 \times 23$
 $V = 1472\pi$
 $V = 4624.424386...$

Answer: 4624

Part C: 2012 or 2011 is accepted

36) (show factor tree)

Answer: $2^2 \cdot 3 \cdot 7$

37) Yellow 25%
 Red 15%
 Green 10% (Divide the degrees by 360 to get the percents)

38) 61-64 3
66-70 2
71-75 2
76-80 2
81-85 1
86-90 5

Part B: 86-90

Part C: 81-85