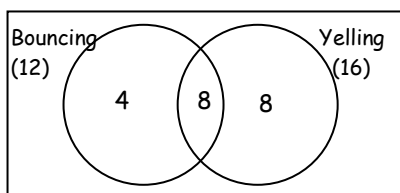


2006 Grade Four Competition - Full Solutions

- 1) D $7 \times 1 = 7$, 7 is the larger number
- 2) B Two hours after 10:30 pm on Thursday is 12:30 am on Friday.
- 3) A $15 \times 10 = 150$ cm which equals 1.5 metres
- 4) C All 26 did not fly away (or stayed), BUT 12 flew away. That leaves 14
- 5) D There are 25 prime numbers below 100. The 25th prime number is 97.
- 6) C A combination of two quarters (50¢) and one dime (10¢) will make 60¢. None of the other options can be made with exactly three quarters and/or dimes.
- 7) B (last page read) – (pages not read) = pages read
 $62 - 44 = 18$ pages read He read 18 pages.
- 8) C There are 8 halves in 4 plus 1 more half = 9 halves.
- 9) C If all of the flowers had 3 petals, 60 petals would be counted. There are 10 extra petals. Give 5 flowers each two more petals. $20 - 5 = 15$ flowers with only 3 petals.
- 10) B 1 to any exponent will equal 1. $1 + 1 + 1 = 3$
- 11) A $(3 \times \frac{1}{2} \text{ of } 8) - 2 = 10$ George eats 10 kg.
- 12) C
- 13) C $\frac{1}{4} + \frac{1}{4} = \frac{2}{4} = \frac{1}{2}$
- 14) D $165 \div 3 = 55$ $165 \div 5 = 33$ $165 \div 11 = 15$
- 15) A The anchor date is the 10th of May
 $10 - 3 + 6 + 7 + 3 = 23^{\text{rd}}$ of May is my sister's birthday
- 16) D
- 17) C The layers represent the perfect squares of 1, 2, 3, 4 and 5. The next layer will need 6^2 or 36 cubes.
- 18) B There are fifteen 4's: 4, 14, 24, 34, 40, 41, 42, 43, **44**, 45, 46, 47, 48, 48
- 19) C The pattern consists of consecutive natural numbers (9 10), (11 12), (13 14), (15 16), (17 18): the next number will be 19 20
- 20) C Three tiles will fit along each wall in the room. $3 \times 3 = 9$
- 21) B The pattern of triangles is made up of prime numbers. The next prime number is 11.
- 22) D $78 \times 3 = 234$ marks on the 1st three tests, and $82 \times 4 = 328$ marks total for all four tests, or an extra $328 - 234 = 94$ marks on the 4th test, therefore, 94% is needed.
- 23) B $(5 \times 6 \times 7) \times 8 = 210 \times \underline{\quad}$
 $5 \times 6 \times 7 = 210$ or 21×10
- 24) A A square with a perimeter of 20 has a side length of 5 cm.
 The circle would have a diameter of 5 cm and a radius of 2.5 cm.
- 25) D Total time is 45 seconds $\times 10 = 450$ seconds. This is 7 minutes, 30 seconds. ($450 \div 60 = 7$ minutes with 30 seconds left over.)
- 26) B $95 - 75 = 20$ There are 20 starfish.
 $75 - 20 = 55$ There are 55 crabs.
- 27) A Numerator multiplied by 2. Denominator multiple of 3.
 $\frac{2}{3}, \frac{4}{6}, \frac{8}{9}, \frac{16}{12}, \frac{32}{15}, \dots$ $1\frac{1}{3} = \frac{4}{3} = \frac{16}{12}$ and $\frac{32}{15} = 2\frac{2}{15}$
- 28) C There are thirteen one-letter, four 6-letter squares and one 13-letter square; for a total of 18 squares.
- 29) B If $\frac{4}{5}$ is 24 then $\frac{1}{5}$ is $24 \div 4 = 6$. The blue socks are $\frac{1}{5}$ of the total so there are 6 socks.
- 30) D If the pop is worth 1 unit, then the cookie is worth 2 units and the hotdog 4 units. There are a total of 7 units for \$14. Each unit is \$2 each. Because each hotdog is 4 units, then 2 hotdogs would be 8 units. The cost for 8 units is $8 \times \$2 = \16 .



Total: 25
 $8 + 8 + 4 = 20$ children
 bouncing and yelling
 $25 - 20 = 5$ doing neither

