ELEMENTARY - PETTING ZOO **SOLUTIONS**

- 1. Admission=2(\$5.50) + 2(\$2.75) = \$11.00+ \$5.50 = (\$16.50) C
- 2. COST 2(+07 d. SCOUNT = \$11 (.2 x 11) = \$11-\$220 = \$8.80 B
- 3. (1+14) = 3×4 = 15=3×4 = 5×4 = [20] B
- 4. Area= length x width = 15 feet x 12 feet = 180 square feet C
- 5. perimeter = 2 (length) + 2 (width) = 2(15)+2(12) = 54 feef D
- 6. A=TTY2 = TT (3)2 = PATT SQUARE FEET) C
- 7 49 51 91 (97) is only divisible by land 97, therefore, it is prime. D
- 8. 13克feet= 号feet; 3 feet= 1 yard

9. 2 miles = \frac{1}{3} mile \frac{1}{2} \frac{1}{3} mile \frac{1}{2} \frac{1}{3} \frac{1

Therefore, you have to of an hour to catch Benny. to of an hour is to (60 minutes), which is 10 minutes.) A

- 10. V=3TT(2h=3TT(2)2(5)=3TT(4)(5)= 29TT cubic in Engs B
- II. Given 95°F, °C = 暑(95-32) = 暑(63) = 5(4) = 35°C E
- 12. Divisibility rule for 3 = sum of the digits are divisible by 3. Divisibility rule for <math>8 = last 3 digits are divisible by 8.
 - · 2952 -> 2+9+5+2= 18, which is divisible by 3
 - Therefore, [2952] is divisione by 3 and 8. Trying the rules on the other answer choices shows that they are not divisible by 3 and 8. A
- 13. Clue I doesn't eliminate any choices. Clue I eliminates Cand D because I is the only digit that is neither prime nor composite. Clue II doesn't eliminate any choices. Clue IV gives you the correct

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answer because: 2+2 = 2(2)=4, but 3+3 \$ 3(3), so the correct answer is 1224. A

14. Apples= 专(12)=4; carnots= 支(12)=6. Since there are 12 food items in the bag, you subtract 4 and 6 from 12,

getting an answer of Dougar cubes. B

15. One way to do this problem is to divide both sides of 8x+28=52 by 4, because you need a 2x term, which is 姿. Dividing by 4 glives 2x+7 = [3]

Aviotiver way- solve for x; 8x=24 → x=3 → 2(3)+7=13 D 16. Because there are 7 letters in shipping's name, divide 30 by 7 and find the remainder; 75% The remainder is 2. The 4 indicates 4 complete cycles of his name and the 2 indicates that on the 30th second, you will recite the 2nd letter, which is 田. A

17. If you calculate the meal price of each answer choice, you will get the following - A is \$5.85, 18 15\$5.35, C is \$4.60, and D is \$4.95 Theonly option &\$4.75 is C.

18. Since there are 3 drink options, 2 side options, and 3 emirée options, you will have (3)(2)(3) complète meal Options, (3)(2)(3) = [8] D

2.25, 2,1.3, 0.2, -0.5 get you [2, -0.5, +, 1.3, + C -2,-0.5, 0.2,1,3,2.25

20. Weiming can only be in lane 3 or lane 4, Keven can only be in lane 3 because danny is in lane 1, which is the other oddnumbered lane. Therefore, Weiming is in lane 4. D

21. Since diameter = 2(radius) = 2(8 feet) = 16 feet, croumference = 161) D

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22. First, convert 2 minutes to 120 seconds because the answer is in seconds. Then find the least common multiple of 45,120, and 30.

To find the LCM, you need to take the highest powers of all the factors in the three numbers:

 $2^3 \cdot 3^2 \cdot 5 = 8 \cdot 9 \cdot 5 = 360 \text{ C}$

23. Distance = ratex time. Since Joyce starts out 5 minutes before Cici, she will have walked 5 mins more-total. Using the formula, if we set Cicis time as x minutes, Joyce's time will be x-t5 minutes.

50 (X+5) = 75(X) we set them qual because when cici catches up to Joyce's distance cicisdistance, they will have walked the same distance.

50X+250=75X→ 25X=250 → Y=10 minutes

Therefore, cici will have walked 10 minutes since her arrival at 2:05 pm. They will meet at [2:15 pm.] B

24. By order of operations:

$$\frac{3[(2+3)^2-(4+2)]}{2} = 3^2 \Rightarrow \frac{3[(5)^2-7]}{2} = 27 \Rightarrow \frac{3[18]}{2} = 27 = 27 \Rightarrow 0$$

25.
$$mean = 63+60+52+59+52+60+79+63+52 = 540 = 60$$

median= 52,52,52,59,60,63,63,63,79

mode = 62, because it appears the most (3 times)
The sum of the weights is 60+60+52=[172]. B

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- 26. The probability that you draw a grape follopop on your first try 医 & . Assuming you draw the first grape there are Farapes left and 23 + frai, therefore, the probability is 景。 The probability that you get two grape so like ops in a rew is (義) (景) = (青)(長) [青] . B
- 27. H. K. Y Eldoes not have any line of symmetry. A
- 28. This patient is anthometic because you add 4 to the current term to get the next term. 19,23,27,31,35,39, 153+ C
- 29. After 4 hours, the time is 1:43 pm. That is 6 minutes past the current time, 2:37 pm; therefore, 4 hours 6 minutes = 3 hours and 54 mmutes. B
- 30. 10 questions _ 30 questions 2½ hours x hours