Math Kangaroo 2005 Answers

Level of Grades 3-4

1. C
2. A
    a. One way to do this problem: Figure out how many times 4 goes into 17. (4 times) Then you know that the clocked moved 4 hours and 15 minutes which means the minute hand will be on the three.
3. B
4. B: 4x4 = 16
    a. 8x___ = 16
    b. Answer: 2
5. B
    a. Eva: 2 legs
    b. 2 parents: 4 legs
    c. Brother: 3 legs
    d. Dog: 4 legs
    e. 2 cats: 8 legs
    f. 2 parrots: 4 legs
    g. 4 fish – no legs
    h. Total: 24 legs
6. D
7. E
8. C
9. C
10. B
11. B
12. C
13. D
    a. 66-24 = 42
    b. 42 ÷ 2 = 21
    c. 24 + 21 = 45
    d. 45 + 21 = 66
14. D
15. E
    a. This is kind of a poorly worded question as they don't tell you how many sacks he can carry at one time. We are assuming he can only carry one sack at a time and that each sack has a hole.
16. D
17. B
18. B
19. A –
    a. To get from the perimeter of the inside of the picture frame to the perimeter of the outside of the picture frame, you can see that you have to add 8 more equal pieces. (2

on each corner). Therefore, the answer is 1m because the problem states that the perimeter of the outside is 8 more than the perimeter of the inside.

20. D
   a. You need 50 gold coins
   b. Each box has 10 gold coins so you need to open 5 boxes
   c. Each chest has 3 boxes so you need to open 2 chests
   d. All the chests are in 1 trunk
   e. 1+2+5 = 8

21. C
   a. To get the long measurement of 1 flower bed you can look at the 2 middle flower beds. The length of the whole garden is 16m and we can see that 2 flower beds span the entire side of 16m. Therefore, the length of 1 flower bed is 8m.
   b. Once we know that, we can see that the other side (20 m) spans a length of two flower beds (long ways) and 1 flower bed (short ways).
   c. Therefore, we have 8 + 8 +____ = 20
   d. Width of flower bed = 4
   e. Therefore, the dimensions of the flower bed are 8m by 4m.
   f. The perimeter is 16 + 8 = 24m

22. E
23. B
24. E