

Kangaroo-Style Math Practice, Grades 3-4, Set 2

Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

- 1.** Using each of the digits 6, 0 and 8 exactly once, what is the biggest 3-digit number you can make?
3 pts

(A) 608 (B) 680 (C) 770 (D) 806 (E) 860

- 2.** Today Theo is 6 and Theo's sister is 9. In 5 years, how old will they be together?
3 pts

(A) 15 (B) 20 (C) 25 (D) 26 (E) 28

- 3.** 24 children go on a trip. Each van can take 5 children. What is the smallest number of vans they need?
4 pts

(A) 3 (B) 4 (C) 5 (D) 6 (E) 7

- 4.** A farm has only chickens and cows. Together they have 13 heads and 44 legs. How many cows are there?
4 pts

(A) 4 (B) 8 (C) 9 (D) 10 (E) 11

- 5.** In a chess club, 6 players each play exactly one game against every other player. How many games are played?
5 pts

(A) 14 (B) 15 (C) 16 (D) 21 (E) 30

- 6.** A straight fence is 36 m long. There is a post every 4 m, including one at each end. How many posts are there?
5 pts

(A) 8 (B) 9 (C) 10 (D) 11 (E) 12

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Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(E) 860**

Put the biggest digit first, then 6, and 0 last: 860.

2. **(C) 25**

Now they are $6 + 9 = 15$ together. Each one gets 5 years older, so add 10: 25.

3. **(C) 5**

$24 / 5 = 4$ with 4 left over, and those children need one more van: 5.

4. **(C) 9**

If all 13 animals were chickens there would be 26 legs. The extra 18 legs come from cows, 2 extra legs each, so there are 9 cows.

5. **(B) 15**

Each player plays 5 games, and every game has two players: $6 \times 5 / 2 = 15$ games.

6. **(C) 10**

$36 / 4 = 9$ gaps, and there is always one more post than gaps: 10.