

Kangaroo-Style Math Practice, Grades 5-6, Set 8

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.** 44 children go on a trip. Each van can take 6 children. What is the smallest number of vans they need?

3 pts

(A) 6 (B) 7 (C) 8 (D) 9 (E) 10

- 2.** There are 24 students in a class. Exactly $\frac{2}{4}$ of them walk to school and the rest come by bus. How many come by bus?

3 pts

(A) 6 (B) 12 (C) 13 (D) 14 (E) 18

- 3.** This row of 5 triangles uses 11 matchsticks. How many matchsticks are needed for a row of 23 triangles?

4 pts



(A) 46 (B) 47 (C) 48 (D) 50 (E) 69

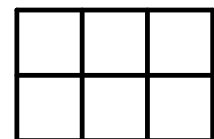
- 4.** In a chess club, 11 players each play exactly one game against every other player. How many games are played?

4 pts

(A) 54 (B) 55 (C) 56 (D) 66 (E) 110

- 5.** How many squares of any size can you find in this picture?

5 pts



(A) 6 (B) 7 (C) 8 (D) 9 (E) 10

- 6.** A farm has only chickens and cows. Together they have 25 heads and 58 legs. How many cows are there?

5 pts

(A) 3 (B) 4 (C) 5 (D) 14 (E) 21

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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. **(C) 8**

$44 \div 6 = 7$ with 2 left over, and those children need one more van: 8.

2. **(B) 12**

$\frac{2}{4}$ of 24 is $24 \div 4 \times 2 = 12$ students walking, so $24 - 12 = 12$ come by bus.

3. **(B) 47**

The first triangle uses 3 sticks and each new one adds 2: $3 + 2 \times 22 = 47$.

4. **(B) 55**

Each player plays 10 games, and every game has two players: $11 \times 10 \div 2 = 55$ games.

5. **(C) 8**

There are 6 small squares, and the bigger squares made of several small ones add up to 8 in all.

6. **(B) 4**

If all 25 animals were chickens there would be 50 legs. The extra 8 legs come from cows, 2 extra legs each, so there are 4 cows.