

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

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.

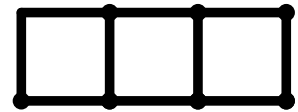
- 1.** 26 children go on a trip. Each van can take 5 children. What is the smallest number of vans they need?

3 pts

(A) 4 (B) 5 (C) 6 (D) 7 (E) 8

- 2.** A row of 3 squares needs 10 matchsticks, as shown.
How many matchsticks are needed for a row of 12 squares?

3 pts



(A) 36 (B) 37 (C) 38 (D) 40 (E) 48

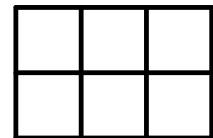
- 3.** In a chess club, 7 players each play exactly one game against every other player. How many games are played?

4 pts

(A) 20 (B) 21 (C) 22 (D) 28 (E) 42

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

4 pts



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

- 5.** There are 30 students in a class. Exactly $\frac{4}{6}$ of them walk to school and the rest come by bus. How many come by bus?

5 pts

(A) 5 (B) 10 (C) 12 (D) 20 (E) 25

- 6.** A farm has only chickens and cows. Together they have 16 heads and 54 legs. How many cows are there?

5 pts

(A) 5 (B) 10 (C) 11 (D) 12 (E) 13

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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) 6**

$26 \div 5 = 5$ with 1 left over, and those children need one more van: 6.

2. **(B) 37**

The first square needs 4 sticks and each new square adds 3 more: $4 + 3 \times 11 = 37$.

3. **(B) 21**

Each player plays 6 games, and every game has two players: $7 \times 6 \div 2 = 21$ games.

4. **(C) 8**

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

5. **(B) 10**

$\frac{4}{6}$ of 30 is $30 \div 6 \times 4 = 20$ students walking, so $30 - 20 = 10$ come by bus.

6. **(C) 11**

If all 16 animals were chickens there would be 32 legs. The extra 22 legs come from cows, 2 extra legs each, so there are 11 cows.