

Kangaroo-Style Math Practice, Grades 5-6, Set 1

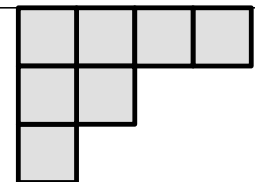
Name: _____ Date: _____

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.** I think of a number. I add 2, then multiply the result by 3, and get 30. What was my number?
3 pts

(A) 7 (B) 8 (C) 9 (D) 10 (E) 24

- 2.** The shape is made of squares with sides of 3 cm.
3 pts What is its perimeter?



side = 3 cm

(A) 21 cm (B) 36 cm (C) 42 cm (D) 48 cm (E) 84 cm

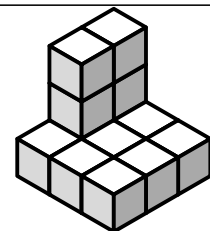
- 3.** In a chess club, 10 players each play exactly one game against every other player. How many games are played?
4 pts

(A) 44 (B) 45 (C) 50 (D) 55 (E) 90

- 4.** Today is Wednesday. What day of the week will it be in 93 days?
4 pts

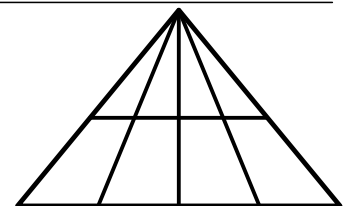
(A) Monday (B) Friday (C) Sunday (D) Thursday (E) Saturday

- 5.** This building is made of cubes. How many more cubes are needed to make a big 3 by 3 by 3 cube?
5 pts



(A) 12 (B) 13 (C) 14 (D) 17 (E) 18

- 6.** How many triangles are there in this picture?
5 pts



(A) 4 (B) 5 (C) 19 (D) 20 (E) 22

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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. **(B) 8**

Work backwards: $30 / 3 = 10$, then $10 - 2 = 8$.

2. **(C) 42 cm**

Walk around the outside: there are 14 square sides on the edge, each 3 cm long, so $14 \times 3 = 42$ cm.

3. **(B) 45**

Each player plays 9 games, and every game has two players: $10 \times 9 / 2 = 45$ games.

4. **(B) Friday**

Every 7 days it is Wednesday again. $93 = 13 \times 7 + 2$, so count 2 days on from Wednesday: Friday.

5. **(C) 14**

The building has 13 cubes. A $3 \times 3 \times 3$ cube has 27 cubes, so $27 - 13 = 14$ more are needed.

6. **(D) 20**

Every pair of lines from the top corner makes a triangle with the bottom line: that is 10 triangles, and the same again with the middle line, so the total is doubled.