

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

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.

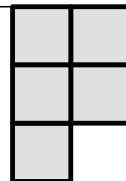
- 1.** Priya buys 5 books that cost \$7 each and pays with a \$50 bill. How much change does Priya get?
3 pts

(A) \$10 (B) \$15 (C) \$25 (D) \$35 (E) \$43

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

(A) 11 (B) 12 (C) 13 (D) 15 (E) 24

- 3.** The shape is made of squares with sides of 1 cm.
4 pts What is its perimeter?



side = 1 cm

(A) 5 cm (B) 8 cm (C) 10 cm (D) 12 cm (E) 20 cm

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

(A) 108 (B) 180 (C) 720 (D) 801 (E) 810

- 5.** At a party, 4 friends meet. Each friend shakes hands once with every other friend.
5 pts How many handshakes are there?

(A) 6 (B) 7 (C) 8 (D) 10 (E) 12

- 6.** A straight fence is 8 m long. There is a post every 2 m, including one at each end.
5 pts How many posts are there?

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

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Answer Key

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1. **(B) \$15**

The books cost $5 \times \$7 = \35 , so the change is $\$50 - \$35 = \$15$.

2. **(B) 12**

Work backwards: $30 \div 2 = 15$, then $15 - 3 = 12$.

3. **(C) 10 cm**

Walk around the outside: there are 10 square sides on the edge, each 1 cm long, so $10 \times 1 = 10$ cm.

4. **(E) 810**

Put the biggest digit first, then 1, and 0 last: 810.

5. **(A) 6**

Each of the 4 friends shakes 3 hands, which counts every handshake twice: $4 \times 3 \div 2 = 6$.

6. **(C) 5**

$8 \div 2 = 4$ gaps, and there is always one more post than gaps: 5.