Kangaroo-Style Math Practice, Grades 5-6, 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. 3 pts
25 children go on a trip. Each van can take 4 children. What is the smallest number of vans they need?

(A) 5 (B) 6 (C) 7 (D) 8 (E) 9

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2. 3 pts
Eli buys 3 books that cost $4 each and pays with a $50 bill. How much change does Eli get?

(A) $12 (B) $33 (C) $38 (D) $46 (E) $48

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3. 4 pts
Today is Wednesday. What day of the week will it be in 76 days?

(A) Tuesday (B) Thursday (C) Monday (D) Wednesday (E) Friday

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4. 4 pts
A book has 40 pages numbered 1, 2, 3, ... up to 40. How many digits are printed in all?

(A) 62 (B) 71 (C) 72 (D) 73 (E) 80

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5. 5 pts
Posts are placed every 3 m all the way around a circular pond with a 30 m long path. How many posts are there?

(A) 9 (B) 10 (C) 11 (D) 12 (E) 30

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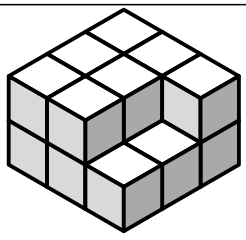
6. 5 pts
This building is made of cubes. How many more cubes are needed to make a big 3 by 3 by 3 cube?



(A) 9 (B) 11 (C) 14 (D) 16 (E) 18

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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) 7**

25 / 4 = 6 with 1 left over, and those children need one more van: 7.

2. **(C) $38**

The books cost 3 x $4 = $12, so the change is $50 - $12 = $38.

3. **(A) Tuesday**

Every 7 days it is Wednesday again. 76 = 10 x 7 + 6, so count 6 days on from Wednesday: Tuesday.

4. **(B) 71**

Pages 1-9 use 9 digits, pages 10-40 use 62: 71 digits.

5. **(B) 10**

Around a circle the first and last post are the same, so there are 30 / 3 = 10 posts.

6. **(B) 11**

The building has 16 cubes. A 3 x 3 x 3 cube has 27 cubes, so 27 - 16 = 11 more are needed.