

SAMPLE QUESTIONS FROM THE GRADE 1 - 4 2008 SMS COMPETITIONS

Grade 1 Questions

1) Six students in Sally's Mopping School cleaned up the deck of the SMS ship. All but four of them got wet. How many students did not get wet?

- a) 2 b) 4 c) 5 d) 6



2) What is the missing number?

2 nickels + 1 dime = ___ pennies

- a) 10 b) 15 c) 20 d) 25

Grade 1 Solutions

- 1) **B** All of them got wet, except 4 that didn't get wet.
2) **C** 2 nickels and 1 dime totals $5¢ + 5¢ + 10¢ = 20¢$. 1 penny = $1¢$, so $20¢$ is 20 pennies.

Grade 2 Questions

1) When Maki, Sammy and John work together they can paint one house in three hours. How long would it take them to paint 9 houses?

- a) 6 hours b) 9 hours c) 12 hours d) 27 hours



2) Kim realized that some letters are vertically symmetrical; this means that they look the same forwards and backwards. Which of the following words is made up only of letters that are vertically symmetrical?

- a) MIXTURE b) TAXI c) HAND d) TOPHAT

Grade 2 Solutions

- 1) **D** Together they can paint one house in three hours. It will take them $9 \times 3 = 27$ hours to paint 9 houses.
2) **B** TAXI is the only word that contains all vertically symmetrical letters (mirror reflections). The letters 'R', 'N', 'E', 'D', and 'P' are not vertically symmetrical.

Grade 3 Questions

- 1) Sydney multiplied a whole number by 2 and then he multiplied it by 5. Which of the following is a possible product?
a) 12 b) 24 c) 75 d) 90
- 2) In the Australian outback, Sam saw 4-legged dingoes (wild dogs) and 2-legged kangaroos. He counted 44 legs and 14 heads. How many kangaroos did Sam see?
a) 6 b) 8 c) 12 d) 13



Grade 3 Solutions

- 1) **D** Any number multiplied by 2 and 5 will have to end in 0, because $2 \times 5 = 10$.
- 2) **A** If they were all kangaroos, there would be $14 \times 2 = 28$ legs. But there are 44 legs, so there are $44 - 28 = 16$ extra legs, which must belong to the dingoes. $16 \div 2 = 8$ dingoes. $14 - 8 = 6$ kangaroos.

Grade 4 Questions

- 1) Ms. Thrifty is saving money so that she can buy a new \$100 bicycle. She saves one dollar and puts it in her piggy bank on the first day. Each day after that she puts twice as much money into her piggy bank as she did the day before, without taking any out. On what day will Ms. Thrifty have enough money to buy the bicycle?
a) Day 5 b) Day 6 c) Day 7 d) Day 8
- 2) Six mangoes and seven melons cost \$5. Seven mangos and six melons cost \$8. How much does 1 mango and 1 melon cost?
a) \$1.00 b) \$1.50 c) \$2.00 d) \$2.25



Grade 4 Solutions

- 1) **C** Day #7: $\$1 + \$2 + \$4 + \$8 + \$16 + \$32 + \$64 = \127 .
- 2) **A** Adding these statements together shows that 13 mangos and 13 melons cost \$13. Dividing this entire statement by 13 shows that 1 melon and 1 mango will cost \$1.