MATH ISSUE SKILLS REVIEW #12

Name: _____

Teacher E-mail (optional)

For use with the May 2, 2011, issue of Scholastic *MATH* Magazine. Fill in/click the letter of the correct answer, or write/type the correct answer in the answer box.

1 What is the next number in this sequence?
173; 522; 1,569; 4,710; …

2 Which of the following is the formula to calculate simple interest?

(A) Principal = interest × interest rate × time
(B) Interest rate = distance ÷ time
(C) Interest = principal × interest rate × time
(D) Interest = money deposited – money withdrawn
(E) Interest = how much you enjoy something ÷ how much it bores you

3 Your principal is $200. Your bank account has an annual interest rate of 5%. After 3 years, how much interest will you earn?

4 To find a percent of a number, you'd first write the percent as a decimal and then…

(A) multiply the number by the decimal.
(B) divide the number by the decimal.
(C) divide the number and the decimal by their GCF.
(D) type in "percent of a number" on your car's GPS unit and the voice will tell you how to get there.

5 What is 36% of 189?

6 If one section of a circle graph is labeled 55%, how many degrees of the circle does that section take up?

7 Probability is a ratio that compares…

(A) outcomes you want to outcomes you don't want.
(B) outcomes you don't want to all possible outcomes.
(C) outcomes you want to all possible outcomes.
(D) out comes the sun and dries up all the rain; the itsy-bitsy spider goes up the spout again.

8 You've written each of the days of the week on a separate piece of paper and put them in a hat. What is the probability of pulling out a day that begins with the letter T? (If you are typing your answer, use the / symbol to separate the top number in the ratio and the bottom number.)

9 The probability of it raining today is $\frac{3}{4}$. The probability of me remembering to carry an umbrella today is $\frac{1}{10}$. What is the probability of *both* events occurring?

10 The Pythagorean theorem tell us that in a right triangle with side lengths a, b, and c, …

(A) $a + b = c$
(B) $ab = c$
(C) $a^2 + b^2 = c^2$
(D) Choice "D" is sad because there is no side d in a right triangle.

BONUS In a right triangle where side $a = 30$ cm and side $c = 34$ cm, what is the length of side b?

clear answers

e-mail answers to teacher