

MATH ISSUE SKILLS REVIEW #11

Name: _____

For use with the April 11, 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.

Teacher E-mail (optional)

1 The average American uses 680 pounds of paper a year. That's 85,000,000 tons of paper for all of us. We currently recycle 63.4% of that total. How many tons is that?

2 If the recycling rate was 75%, how many more tons than your question 1 answer would be recycled?

3 A double-line graph...

- (A) shows one data amount's change over two periods of time.
- (B) compares two data amounts' changes over time.
- (C) compares data amounts for several different items, broken into two amounts (boys/girls, kids/adults, etc.).
- (D) is a graph of those solid yellow lines that run down the middle of the highway and that mean "no passing" even if the person in front of you is driving really, really slowly.

4 You've written a proportion. One of the four values, which you've labeled x , is unknown. How will you solve the proportion?

- (A) Write the proportion as a decimal number, and multiply it by x .
- (B) Multiply the top numbers of each ratio by its bottom number; then solve for x .
- (C) Cross-multiply and solve for x .
- (D) I will solve climate change first; then I'll get to the proportion.

5 The ceiling is 336 square feet. In a 16-square-foot section, you spot 3 smiley faces. How many smiley faces would you estimate are on the entire ceiling?

6 How do you calculate a percent change from an original amount to a new amount?

- (A) Divide the amount of change by the new amount, and write the answer as percent.
- (B) Divide the amount of change by the original amount, and write the answer as percent.
- (C) Write the original amount as a decimal number, and multiply by the new amount.
- (D) Empty all the change from your pockets, and count up how many percents you have.

7 I used to have 26 *MATH* Magazine Zany Bandz. Now my collection is up to 34. What is the percent increase, rounded to the nearest tenth?

8 $343^0 =$

9 What is the standard form of 4^{-3} ? (If you are typing your answer, use the / symbol to separate the fraction's numerator and denominator.)

10 When multiplying or dividing two integers with the same sign, ...

- (A) the result is negative.
- (B) the result is positive.
- (C) it depends whether the sign is positive or negative.
- (D) I think it's negative, but I'm not positive.

clear answers

e-mail answers to teacher