



Fractions, Decimals, and Percents

Worksheet 4

Choice *E*, in multiple-choice questions, is always: *I request help from the teacher.*

You may mark *E* in addition to one other choice if you think that you have the right answer to the question but you do not feel that you have a complete understanding of the problem.

Your teacher will decide whether to use the two-point or four-point scoring rubric for problems that use numbers, pictures, or words to justify/explain your answer(s). You may request help for these questions, too. Write the word “teacher” by your answer(s).

1. The Etna High basketball team won $\frac{3}{4}$ of its games in 1965. If the team were to play 20 games in 1966 and performed as well as the previous year, how many games would the team win? Use pictures, numbers, or words to justify your answer.
2. Pythagleo decides to have a small party for the custodians at Enigma’s new Western High School. He plans to invite their families and their friends. He wants to make $2\frac{1}{2}$ dozen cookies and $1\frac{1}{2}$ dozen cupcakes. He needs $\frac{1}{2}$ cup of sugar for each dozen of cookies and 1 cup of sugar for each dozen of cupcakes. How many cups of sugar does he need? Use pictures, numbers, or words to justify your answer.
3. Chris is given 4 cards each with a different numerical value. If Chris can correctly choose the card showing the greatest probability she will receive another key that will help her locate the missing Etna High students and staff, which value represents the greatest probability?
A. 0.24 B. 25% C. $\frac{1}{5}$ D. $\frac{24}{100}$ E. Teacher
4. Carter had a bag of candy. While he looked away, $\frac{2}{5}$ of the candy disappeared. What percent of the candy did he still have? Use pictures, numbers, or words to justify your answer.
5. It takes $2\frac{1}{2}$ yards of material to make a tablecloth. Chris and Carter have 20 yards of material. How many tablecloths can they make for the Etna High reunion? Use pictures, numbers, or words to justify your answer.
6. Pythagleo was shooting basketballs in the old gym at Etna High. He made 12 of his 20 shots. What was his shooting percentage? Also show his shooting average as a decimal. Use pictures, numbers, or words to justify your answer.
7. Chris’s batting average is 0.245 and Pythagleo had 12 hits in 50 at-bats when he tried to prove that he is a better batter than Chris. Who had the higher average? Use pictures, numbers, or words to justify your answer.