



Fractions, Decimals, and Percents

Worksheet 1

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. Which list has three equivalent numbers?

A. 0.65, 65%, $\frac{3}{4}$ B. 0.40, 45%, $\frac{4}{5}$ C. 0.80, 80%, $\frac{4}{5}$ D. 0.25, 25%, $\frac{1}{2}$ E. Teacher

2. Chris decided to make cookies for the members of her Mystery Solvers club. She wanted to make gingersnap and chocolate chip cookies. The ingredients used by both kinds of cookies are in the table below.

<i>Gingersnap Cookies</i>	<i>Chocolate Chip Cookies</i>
$2\frac{1}{4}$ cup flour	$1\frac{1}{4}$ cup flour
1 cup brown sugar	$\frac{1}{4}$ cup brown sugar and $\frac{1}{2}$ cup granulated sugar
$\frac{3}{4}$ cup butter	$\frac{1}{2}$ cup butter
1 Egg	1 Egg

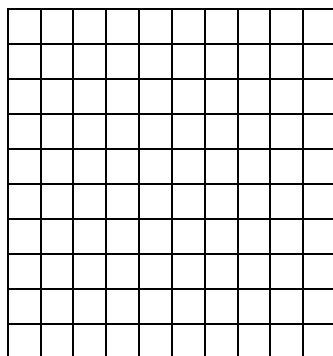
- a. If Chris makes one batch of the gingersnaps and one batch of the chocolate chip cookies, how many cups of flour will she need? Use pictures, numbers, or words to justify your answer.
- b. Chris has $1\frac{2}{3}$ cups of butter on hand. Explain whether or not she has enough butter to make both the gingersnap and the chocolate chip cookies. Use pictures, numbers, or words to justify your answer.



3. Use the chart of the record temperatures in Enigma, Ohio. Which list below correctly orders the temperatures from warmest to coldest?

6/1/1935	7/2/1955	7/25/1958	7/15/1981	8/22/2003
-28 °F	-10 °F	-17 °F	-24 °F	-5 °F

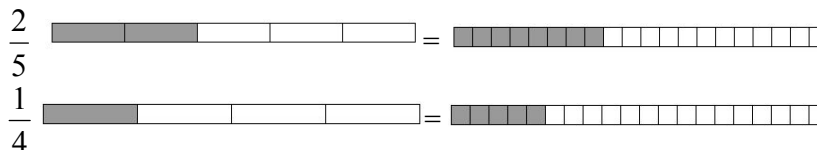
- A. -28 °F, -10 °F, -24 °F, -5 °F, -17 °F C. -28 °F, -24 °F, -17 °F, -10 °F, -5 °F
B. -5 °F, -10 °F, -17 °F, -24 °F, -28 °F D. -10 °F, -17 °F, -24 °F, -28 °F, -5 °F
E. Teacher



4. Use a 10 row, 10 column grid like the sample shown at the left to model the solution to the following problem.

$$0.7 \times 0.4$$

5. The model below represents two fractions. Choose the equation that shows the sum of the two fractions.



- A. $\frac{2}{5} + \frac{1}{4} = \frac{3}{9}$ B. $\frac{2}{5} + \frac{1}{4} = \frac{3}{5}$ C. $\frac{2}{5} + \frac{1}{4} = \frac{13}{20}$ D. $\frac{2}{5} + \frac{1}{4} = \frac{13}{40}$ E. Teacher
6. Chris wanted to download some freeware from the Internet for her computer. The freeware's file size was 4368 KB. Chris has a dial-up modem that can download files at 38 KB a second. Estimate how long it will take Chris to download the file to her computer.
- A. 30 seconds B. 60 seconds C. 100 seconds D. 1000 seconds E. Teacher
7. Yesterday, Carter got back four tests in four different subjects. On his science test, he got 80 out of 100 points. On his English essay, he scored 4 out of the 5 on the grading rubric. On his geography test, he got 30 out of 40 questions correct. On his German vocabulary test, he answered 9 out of 10 questions correctly. On which tests did Carter get the same percentage correct? Use pictures, numbers or words to explain your answer.



8. Carter and Chris found that downloading their favorite songs went up in price to \$1.37 a song. About how many songs can Carter and Chris download for \$20.00?

- A. about 5 songs B. about 10 songs C. about 15 songs D. about 20 songs E. Teacher

9. The 1966 Etna High Drama Club performed its spring musical just as the worst of the disappearances occurred. The auditorium has 550 seats. The attendance is listed below.

Spring Musical Attendance		
Day of the Week	Afternoon Performances	Evening Performances
Thursday	No Performance	456
Friday	No Performance	345
Saturday	401	158
Sunday	54	21

- a. What was the total number of tickets sold for the evening performances? Use pictures, numbers, or words to justify your answer.
- b. How many total seats were empty on Saturday and Sunday afternoon? Use pictures, numbers, or words to justify your answer.
10. Carter's stepmother served an apple pie, a pumpkin pie, and a cherry pie for a holiday dinner. All of the pies were baked in the same size pie pan and each was cut into 6 equal pieces. There were 3 pieces of apple pie left uneaten after the dinner, 2 pieces of the pumpkin pie, and 5 pieces of the cherry pie.
- a. Write an improper fraction to show how much pie was left altogether. Use pictures, numbers, or words to justify your answer.
- b. Write a decimal – rounded to the nearest tenth – to represent the amount of pie left. Use pictures, numbers, or words to justify your answer.