More decimal and percent practice:

1. Represent .32 on a number line.

2. Fill in the blanks with decimal place value words:

When you are adding 2.89 + 4.25, and you combine .09 and .05, you write 4 in the \_\_\_ place, and you trade ten \_\_\_\_\_\_\_\_\_ for one \_\_\_\_\_\_\_\_\_\_\_

3. Show how to multiply 1.7 × 2.4 on this grid, labelling the place-value partial products. Combine the partial products to find the total product





4. Show how to multiply 3.6 × 2.37 using fractions. Convert back to decimals at the end.

5. Convert each fraction to a decimal using long division:

a. 3/16 b. 7/33

6. Show that 4.9 ÷ .27 = 490 ÷ 27 by using fractions and the fraction division algorithm.

7. Show how to compute by long division: 3.61 ÷ 1.6 (round to the nearest hundredth)

8. If you multiply with units: 3.6 m. × 2.37 m. what are the units of your answer at the end?

9. If you divide with units 3.61 m. ÷ 1.6 m. what are the units of your answer at the end?

10. What is the simplified fraction form of 4.8% (numerator and denominator must both be whole numbers)?

12. Solve by algebra:

a. What percent of 85 is 30? (round to nearest percent)

b. 40 is 70% of what? (round to nearest whole number)

c. 65% of 90 is what? (round to the nearest whole number)

13. Solve using a grid:

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| a. What percent of 145 is 30? | b. 40 is 85% of what? |

c. 135% of 42 is what?

 

14. Solve using algebra:

a. An item that was $82 is on sale for $59. What percent discount is that?

b. The selling price of a house rises from $120,000 to $265,000 over a period of 15 years. What percent increase is that?

c. The price of gas went down by 23% from $4.12/gallon. What is the new price?

d. The price of gas went up by 12% to $3.60/gallon. What was the old price?

15. Solve using grids:

a. The price of oil went up from $70/barrel by 20% and then it went down from the new price by 20%. What is the price of oil now?

   

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| b. The market value of a car decreased from $24,000 to $1750. What percent decrease is that? | c. The sale price of a chair that is 40% off is $27. What was the original price? |