Percents and discounts name:

1. Showing and converting some simple fractions to decimals using a 100-grid

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| A. Shade 1/4 of this grid.  How many squares does that cover?  What percent does it show? | B. Shade 1/5 of this next grid. How many squares does that cover?  What percent does it show? |
| C. Shade 1/2 of this grid.  How many squares does that cover?  What percent does it show? | D. Shade 1/10 of this grid.  How many squares does that cover?  What percent does it show? |

E. Give 2 more examples of fractions that it would be easy to show on a 100-grid

Give 2 examples of fractions it would be hard to show on a 100-grid.

2. Shade the 100-grid below to show 72%:



If the whole square represents $300, what is a small square worth? (Show how you found it)

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Use the value of the small square to find what the shaded area is worth. Show how you did it:

2. Shade the 100-grid below to show 20% with one color, and shade the rest of the grid with another color. The whole grid represents a price of $35.00.

What is a small square worth?

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|  | a. Use the value of a small square to find the value of the squares shaded with the 20% color  b. Use the value of a small square to find the value of the squares shaded with the 80% color. |

c. Which value (a or b) would you use to find the discount on a $35.00 item that has been reduced by 20%

d. Which value (a or b) would you use to find the sale price of a $35.00 item that has been is reduced by 20%

3. This 100-grid is shaded to show an item that is on sale 30% off the original price. Circle the correct phrase to complete each statement

i. The whole grid shows a. the original price b. the sale price c. the discount (amount saved)

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| ii The left side of the grid shows  a. the original price  b. the sale price  c. the discount (amount saved) |  | iii. The right side of the grid shows  a. the original price  b. the sale price  c. the discount (amount saved) |

4. Use the grid from #3 to help you answer the problem:

If the reduced (sale) price of an item that is on sale for 30% off its original price is $21.00, what was the original price?

a. What is what is a small square worth?

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b. What is the original price?

c. What is the sale price?

d. What is the discount?