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GOING SHOPPING OPEN ENDED ON DISCOUNT

The Carters are buying a new CD player. Three stores have the model they want on sale this week. Here are the ads:

RADIO SHOP	DISCOUNT CITY	RALPH'S	
Regular Price: \$200	Regular Price: \$180	Regular Price: \$200	Ø
Discount: 20% off $\frac{?}{200} = \frac{80}{109}$	Discount: 30% off $\frac{7}{180} = \frac{76}{100}$	Discount: 10% off PLUS an extra 20% off 180 1440	500

1\$1760p

• What is the sale price at each store? Show the proportion and answer for each store.

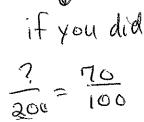
Radio Shop Sale Price	Discount City Sale Price	Ralph's <u>Sale Price</u>
2 = 80 200 = 100 \$160	7. 70 180 = 100 \$126	\$144 or \$140

Which store will give the Carters the best buy?

Discount City

• What will the price be?

#126



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Mrs. Martin wants to put tiles on the floor by the front door of her house. She wants to use three different colors in her design:

 $\frac{1}{2}$ of the tiles are blue, 25% are green, 0.25 are red

• Use the grid below to design a floor for Mrs. Martin. Label each tile with the first letter of the color that should be placed there.

B	В	B	G	G	G
B	B	B		6	G
B	B	B	R	R	R
B	B	B	R	R	R

• Explain how you knew how many tiles would be blue, green, and red.

1/2 had to be blue. There are 24 tiles. I know 1/2 of 24 is 12. So I know there had to be 12 blue. Abnow 25% and 0.25 are equal. With 12 tiles remaining, & know 6 had to be

• If she changed her mind after laying the tiles and decided she wanted to turn 3 of the blue tiles to red tiles, what percent of the new design would be red?

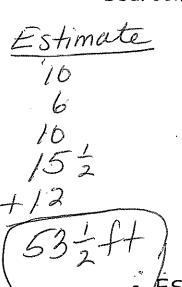
13 +3 24 37.5%

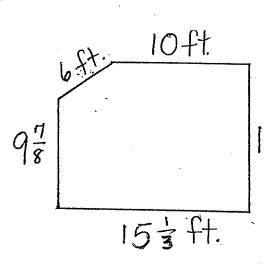


Open-ended Response - Fractions

Read the following open-ended problem carefully. Show all your work, explain your reasoning when asked, and write neatly.

Keisha plans to put a wallpaper border around her bedroom. The room dimensions are below:





 $\frac{2 \times 40^{1}}{10+6} = 16$ $\frac{7}{9} = 9 \frac{21}{34}$ $12 = 12 \frac{4}{34}$ $12 = 12 \frac{4}{34}$ $15 = 15 \frac{8}{34}$ 36 = 33 = 3 37 = 34 37 = 34 37 = 34Keisha will need to go 53 = 34

ESTIMATE how much border Keisha will need to go around the entire bedroom. SHOW ALL YOUR WORK and EXPLAIN YOUR REASONING.

- Find the EXACT AMOUNT of border Keisha will & need. SHOW ALL WORK.
- If a roll of border can cover 15 feet, how many rolls will she need to buy for her bedroom? How much will not be used after she puts the border around her room? She will need 4 rolls of border, which covers 60 ft. 60 = 59 \frac{2}{3} = 53 \fr

65ft will not used

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JOHNSON'S FAMILY TRIP

Four members of the Johnson family took a trip from Pittsburgh to Harrisburg, a distance of 221 miles. It took them 4 hours and 15 minutes to make the trip. The car required 13 gallons of gasoline for the entire trip. Their expenses included:

Gasoline - \$1.25 per gallon Tolls - \$6.50 total Food - \$12.84 total

- How much did the Johnson family spend on gas? Show your work or explain how you got your answer.
- How much did the Johnson family spend IN ALL for their trip?
 Show your work or explain how you got your answer.
- What was the average cost per mile based on the total expenses of gas, food, and tolls for their trip? Show your work or explain how you got your answer.

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