Name _____

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1. Hector spent $36.75 for 2 DVDs that cost the same amount. The sales tax on his purchase was $2.15. Hector also used a coupon for $1.00 off his purchase. How much did each DVD cost?

First, make a flowchart to show the information and show how you would work backward.

(flowchart space)

Then, work backward to find the cost of 2 DVDs.

_____

Finally, find the cost of one DVD.

_____

So, each DVD costs _____.

2. What if Hector spent $40.15 for the DVDs, the sales tax was $2.55, and he didn't have a coupon? How much would each DVD cost?

_____

3. Sophia spent $7.30 for school supplies. She spent $3.00 for a notebook and $1.75 for a pen. She also bought 3 large erasers. If each eraser had the same cost, how much did she spend for each eraser?

_____

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4. The change from a gift purchase was $3.90. Each of 6 students donated an equal amount for the gift. How much change should each student receive?

_____

5. A mail truck picks up two boxes of mail from the post office. The total weight of the boxes is 32 pounds. One box is 8 pounds heavier than the other box. How much does each box weigh?

_____

6. Stacy buys 3 CDs in a set for $29.98. She saved $6.44 by buying the set instead of buying the individual CDs. If each CD costs the same amount, how much does each of the 3 CDs cost when purchased individually?

MATH on the ▶ Spot

_____

7. **MTR** A school cafeteria sold 1,280 slices of pizza the first week, 640 the second week, and 320 the third week. If this pattern continues, in what week will the cafeteria sell 40 slices? Explain how you got your answer.

_____

_____

_____

8. Dawn spent $26.50, including sales tax, on 4 books and 3 folders. The books cost $5.33 each and the total sales tax was $1.73. Fill in the table with the correct cost of each item.

Item	Cost
cost of each book	
cost of each folder	
cost of sales tax	

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