

**MY Homework****Lesson 7****Problem Solving:  
Look for a Pattern****Homework Helper**Need help? [connectED.mcgraw-hill.com](https://connectED.mcgraw-hill.com)

Deidra wants to buy new summer clothes. She needs to find the total cost in order to determine how much she can afford. The table shows the prices of some items. Based on the pattern, what is the sales tax and total cost for jeans that are \$18.00? Round each amount to the nearest cent.

Item	Price	Sales Tax	Total Cost
T-shirt	\$8.00	\$0.56	\$8.56
Shorts	\$10.00	\$0.70	\$10.70
Sandals	\$15.00	\$1.05	\$16.05
Jeans	\$18.00	■	■

**1 Understand****What facts do you know?**

The price, sales tax, and total cost of the T-shirt, shorts, and sandals.

The price of the jeans.

**What do you need to find?**

The sales tax and total cost of the jeans.

**2 Plan**

Look for a pattern to solve the problem.

**3 Solve**

Multiply the cost of the item by 0.07 to find the sales tax, rounded to the nearest cent. Add the sales tax to the price of the item.

$$\$18.00 \times 0.07 = \$1.26 \quad \text{The sales tax is } \$1.26.$$

$$\$18.00 + \$1.26 = \$19.26 \quad \text{The total cost is } \$19.26.$$

**4 Check**

$$\$19.26 - \$1.26 = \$18.00, \text{ so the answer is correct.}$$



# Problem Solving


Solve each problem by looking for a pattern.

1. Harold has 4 classes each school morning. Each class is 1 hour long, and there are 10 minutes between classes. The first class starts at 8:00 A.M. What time does the fourth class end?

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2. Mr. Moore read 25 pages of a book on Monday. He read 32 pages on Tuesday, 39 pages on Wednesday, and 46 pages on Thursday. If this pattern continues, how many pages will Mr. Moore read on Sunday?

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3. **Mathematical PRACTICE**  **Look for a Pattern** Describe the pattern below. Then find the next two numbers.

547, 54.7, 5.47, 0.547, \_\_\_\_\_, \_\_\_\_\_

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4. Draw the next two figures in the pattern.



5. Marissa can buy 3 oranges for \$1.35, 4 oranges for \$1.80, or 5 oranges for \$2.25. Marissa can buy 10 oranges for a price that fits this pattern or a bag of 10 oranges for \$4.25. Which way costs less for 10 oranges? Explain.

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My Work!

