### Lesson 10 Practice Problems

1. In a city in Ohio, the sales tax rate is 7.25%. Complete the table to show the sales tax and the total price including tax for each item.

| * item
 | * price before tax ($)
 | * sales tax ($)
 | * price including tax ($)
 |
| --- | --- | --- | --- |
| * pillow
 | * 8.00
 |  |  |
| * blanket
 | * 22.00
 |  |  |
| * trash can
 | * 14.50
 |  |  |

1. The sales tax rate in New Mexico is 5.125%. Select **all** the equations that represent the sales tax, $t$, you would pay in New Mexico for an item of cost $c$?
	1. $t=5.125c$
	2. $t=0.5125c$
	3. $t=0.05125c$
	4. $t=c÷0.05125$
	5. $t=\frac{5.125}{100}c$
2. Here are the prices of some items and the amount of sales tax charged on each in Nevada.

| * cost of item ($)
 | * sales tax ($)
 |
| --- | --- |
| * 10
 | * 0.46
 |
| * 50
 | * 2.30
 |
| * 5
 | * 0.23
 |

* 1. What is the sales tax rate in Nevada?
	2. Write an expression for the amount of sales tax charged, in dollars, on an item that costs $c$ dollars.
1. Find each amount:
	1. 3.8% of 25
	2. 0.2% of 50
	3. 180.5% of 99
* (From Unit 4, Lesson 9.)
1. On Monday, the high was 60 degrees Fahrenheit. On Tuesday, the high was 18% more. How much did the high increase from Monday to Tuesday?
*
* (From Unit 4, Lesson 8.)
1. Complete the table. Explain or show your reasoning.

| * object
 | * radius
 | * circumference
 |
| --- | --- | --- |
| * ceiling fan
 | * 2.8 ft
 |  |
| * water bottle cap
 | * 13 mm
 |  |
| * bowl
 |  | * 56.5 cm
 |
| * drum
 |  | * 75.4 in
 |

* (From Unit 3, Lesson 4.)



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