### Lesson 13 Practice Problems

* 1. How can you find 50% of a number quickly in your head?
	2. Andre lives 1.6 km from school. What is 50% of 1.6 km?
	3. Diego lives $\frac{1}{2}$ mile from school. What is 50% of $\frac{1}{2}$ mile?
1. There is a 10% off sale on laptop computers. If someone saves $35 on a laptop, what was its original cost? If you get stuck, consider using the table.

| * savings (dollars)
 | * percentage
 |
| --- | --- |
| * 35
 | * 10
 |
| * ?
 | * 100
 |

*
1. Explain how to calculate these mentally.
	1. 15 is what percentage of 30?
	2. 3 is what percentage of 12?
	3. 6 is what percentage of 10?
2. Noah says that to find 20% of a number he divides the number by 5. For example, 20% of 60 is 12, because $60÷5=12$. Does Noah’s method always work? Explain why or why not.
3. Diego has 75% of $10. Noah has 25% of $30. Diego thinks he has more money than Noah, but Noah thinks they have an equal amount of money. Who is right? Explain your reasoning.
* (From Unit 3, Lesson 10.)
1. Lin and Andre start walking toward each other at the same time from opposite ends of 22-mile walking trail. Lin walks at a speed of 2.5 miles per hour. Andre walks at a speed of 3 miles per hour.
* Here is a table showing the distances traveled and how far apart Lin and Andre were over time. Use the table to find how much time passes before they meet.

| * elapsed time (hour)
 | * Lin’s distance (miles)
 | * Andre’s distance (miles)
 | * distance apart (miles)
 |
| --- | --- | --- | --- |
| * 0
 | * 0
 | * 0
 | * 22
 |
| * 1
 | * 2.5
 | * 3
 | * 16.5
 |
|  |  |  |  |
|  |  |  |  |
|  |  |  | * 0
 |

* (From Unit 3, Lesson 8.)



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