### 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 mile from school. What is 50% of 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 . 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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