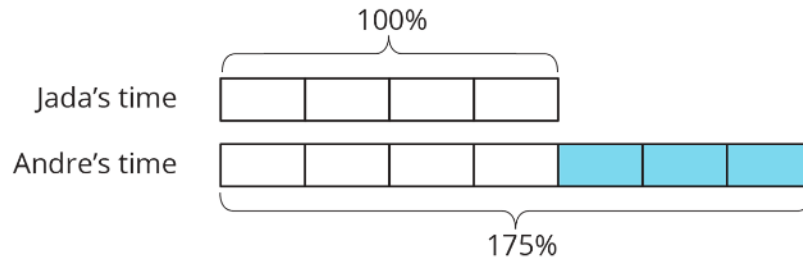


## Lesson 6 Summary

Imagine that it takes Andre  $\frac{3}{4}$  more than the time it takes Jada to get to school. Then we know that Andre's time is  $1\frac{3}{4}$  or 1.75 times Jada's time. We can also describe this in terms of percentages:



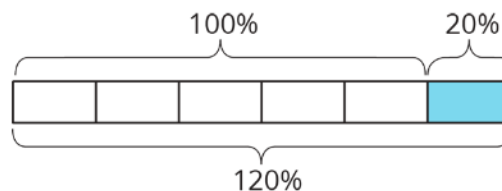
We say that Andre's time is 75% more than Jada's time. We can also see that Andre's time is 175% of Jada's time. In general, the terms **percent increase** and **percent decrease** describe an increase or decrease in a quantity as a percentage of the starting amount.

For example, if there were 500 grams of cereal in the original package, then "20% more" means that 20% of 500 grams has been added to the initial amount,  $500 + (0.2) \cdot 500 = 600$ , so there are 600 grams of cereal in the new package.



We can see that the new amount is 120% of the initial amount because

$$500 + (0.2) \cdot 500 = (1 + 0.2)500$$



## Lesson 6 Glossary Terms

- percentage increase
- percentage decrease