



VACATION DAY

Can the guard afford the all-inclusive resort?

Cicero the Guard looks forward to his one vacation day every year. After a small raise, Cicero now earns 6 denari for every 5 days of work. He has 35 more days of work until his vacation day.

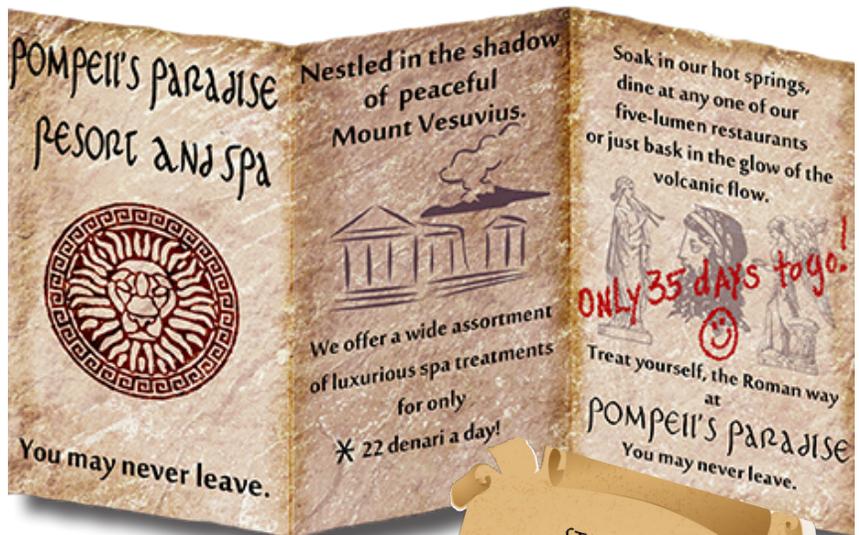
The resort he has chosen is all-inclusive, meaning meals and spa services are included in the cost. This year, though, he wants to go all-out and purchase brand new attire. He has made a list of what he hopes to buy.

Determine if Cicero can afford his vacation day.

6.RP.A.3b

About this standard

Solve unit rate problems including those involving unit pricing and constant speed. *For example, if it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours? At what rate were lawns being mowed?*



Can Cicero afford his vacation day?

APPLYING THE STANDARD

Here is how similar problems might look on a test.

- 1) Three friends each mow lawns on the weekend to earn extra money. How many lawns can each friend mow in 10 hours?

| Ricardo | Julia | Kenneth |
|-----------------------|-----------------------|-----------------------|
| 16 lawns in 8 hours | 14 lawns in 5 hours | 15 lawns in 6 hours |
| ___ lawns in 10 hours | ___ lawns in 10 hours | ___ lawns in 10 hours |

- 2) During two hours of television, there is approximately 29 minutes of commercials. If one watches television for five hours, how many minutes of commercials will be shown?

- 3) If the sales rates remain constant, order the car dealers from most cars sold per month to least cars sold per month.

| Autos 'R Us 9 cars sold in 9 days | Motor World 4 cars sold in 8 days | <table border="1"> <thead> <tr> <th></th> <th>Car Dealership</th> <th>Cars sold each month</th> </tr> </thead> <tbody> <tr> <td>Most</td> <td></td> <td></td> </tr> <tr> <td>↓</td> <td></td> <td></td> </tr> <tr> <td>Least</td> <td></td> <td></td> </tr> </tbody> </table> | | Car Dealership | Cars sold each month | Most | | | ↓ | | | Least | | |
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| Car Nation 6 cars sold in 10 days | Quality Ride 5 cars sold in 2 days | | | | | | | | | | | | | |



- 4) On average, it takes 3.4 minutes to download a 100-Megabyte video file. At this rate, how long will it take to download a 4-Gigabyte movie file? (1 GB = 1024 MB)

- 5) Aiko is hoping to buy her grandparents a ceramic bowl for their anniversary. The bowl costs \$112.00. At her job, Aiko earns \$40 for 5 hours of work. How many hours does Aiko need to work to buy her grandparents the bowl?