

| $B_{\text {ant }}^{3}$ |  |
| :---: | :---: |
| Goals <br> - Analyze student thinking strategies for proportional reasoning <br> - Examine a progression of those strategies <br> - Study and summarize the CCSS related to Proportional Reasoning |  |
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- Solve the four problems as though you are a $7^{\text {th }}$ grader who does not yet know the cross multiplication algorithm.
- Represent at least one of your solutions visually.



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| $\underline{B} \underline{B o a l s}$ |
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| Analyze student proportional reasoning |
| Examine a progression of student strategies |
| Summarize the CCSS related to Proportional |
| Reasoning |
|  |
|  |





1. Ellie estimates that it takes her 5 hours to walk 8 miles. How many hours would she walk if she walked 48 miles?
2. Jane estimates that she takes 8 hours to go 12 miles. How many miles would she walk in 42 hours?
3. Quinten is an extreme trail runner and estimates that he takes 3 hours to run 9 miles. How many hours would it take for him to run 24 miles?
4. Sierra is also a trail runner. She estimates that she runs 8 miles in 3 hours. If she runs for 2 miles, how long has she run?


Student Work C

1. Ellie estimates that it takes her 5 hours to walk 8 miles. How
2. Elie estimates that it takes her 5 hours to walk 8 m
many hours would she walk if she walked 48 miles?
$\frac{5}{8} \times 6.30$ houls
$8 \times 6.48$

Student Work D
2. Jane estimates that she takes 8 hours to go 12 miles. How
many miles would she walk in 42 hours?
many miles would she walk in 42 hours?


## Student Work E

2. Jane estimates that she takes 8 hours to go 12 miles. How
many miles would she walk in 42 hours?


Student Work F
2. Jane estimates that she takes 8 hours to go 12 miles. How many miles would she walk in 42 hours?

| hrs | 8 |
| :---: | :---: | :---: |
| miles | 12 |$\times 1.5\binom{42}{63} \times 1.5$



