

Truck and Bike Task

Teacher: Shalunda Shackelford

District: Hamilton County School District

Grade: High School Algebra I

- 1 *Teacher:* Between what two seconds did the truck drive the fastest? Shh. What do
2 you think and tell me why.
- 3 *Student:* I think it was either 8 and 9 or 7 and 18 because it was the two steepest
4 ways that the truck gave me.
- 5 *Teacher:* All right, so come point to me right quick.
- 6 *Student:* 8 and 9.
- 7 *Teacher:* So do you guys agree that that's a lot steeper than 7 to 9?
- 8 *Student:* Yeah.
- 9 *Teacher:* Okay, wait, wait, let Mykel talk.
- 10 *Student:* The line's going like straighter.
- 11 *Teacher:* So what happens when it's going up – what do you mean by straight?
12 Hold up. Straight this way?
- 13 *Student:* No, like steeper.
- 14 *Teacher:* Steeper. It's going up a lot steeper on that one?
- 15 *Teacher:* How do you know that that was the steepest?
- 16 *Student:* Because they gained a whole lot of speed right there from the bottom
17 one and again, like it went up a lot more.
- 18 *Teacher:* It went up a lot more, so gained a lot more speed.
- 19 *Student:* Yeah 'cause it started from 16 and then it ended up at, like 200, I think.
- 20 *Teacher:* So, we're discussing what?
- 21 *Student:* It covered more distance in the...that time range.
- 22 *Student:* You can find –

- 23 *Teacher:* Right, it covers more distance in the time range there. I like that one
24 better. Chelsea, what do you understand about what Ne’Kail said? Just
25 tell me what you understand about what Ne’Kail said.
- 26 *Student:* The distance got higher in a shorter amount of time.
- 27 *Teacher:* How can we prove which one is the correct answer? Without just saying,
28 oh it looks this way, it looks that way, blah, blah. All right, Tony, you’re
29 absolutely sure on this one?
- 30 *Student:* Yes, I am so confident.
- 31 *Teacher:* All right, let me hear it. Wait, wait, everybody else should be what?
32 Listening. Unless you’re trying to figure it out, you can just be writing on
33 your paper. Go ahead.
- 34 *Student:* See, in those 2 seconds, you’ve got to see how much time was like—how
35 much distance was covered there and over there.
- 36 *Teacher:* Okay so then –
- 37 *Student:* And then if the numbers are bigger, then you know which one. I haven’t
38 done it yet.
- 39 *Teacher:* Okay, do it. So explain to me what all that means then.
- 40 *Student:* Okay. This showing that the truck went 40 feet in only 1 second and the
41 bike went 40 feet in 2 seconds. So the truck traveled faster.
- 42 *Teacher:* Stephanie, do you understand what she just said about that? Stay right
43 here, Ne’Kail, just be patient.
- 44 *Student:* Yes, now that, like, I finally got the whole equation of it, I understand it.
- 45 *Teacher:* So tell me what you understand now.
- 46 *Student:* Okay, I understand that since he had—first he had stopped awhile, and
47 then he had sped up but the bike like –
- 48 *Teacher:* No, tell me what you understand about what she just said, about what
49 she just said with that—say it one more time Ne’Kail and then Stephanie’s
50 going to listen, so is Tamela, so is MaKayla. The first people that said that
51 they disagreed at first. All right, go ahead.

- 52 *Student:* Okay, both of them had to travel 40 feet and they only took the truck 1
53 second to travel 40 feet, but it took the bike 2 seconds to travel the same
54 distance of 40 feet.
- 55 *Student:* Okay, so what she's saying is it took the truck to travel 40 feet and also
56 the bike to travel 40 feet, but the truck got there in 1 second.
- 57 *Teacher:* And the—what?
- 58 *Student:* And the bike got there in 2 seconds.
- 59 *Student:* The bike got there in 2 seconds, but the truck got there in 1 second.
- 60 *Teacher:* So who went faster?
- 61 *Student:* The truck.
- 62 *Teacher:* The truck. Tell me what you understood about this.
- 63 *Student:* I said that the—okay, that the bike, it got—it took 40, 40 feet in 2 seconds
64 and then the truck, it took 40 feet in 1 second.
- 65 *Teacher:* So who went faster, girl?
- 66 *Student:* The truck.
- 67 *Teacher:* The truck.
- 68 *[End of Audio]*