18. The student's weight on the moon would be 70 N, which is 1/6 × 420 N.
19. Kyle achieved the greatest average speed during the interval between 5 minutes and 10 minutes. The distance traveled during this interval (2 km) was greater than the distance covered in any other 5-minute interval.
20. Kyle probably stopped. He did not travel any distance in this interval.

Chapter Test C

1. A
2. D
3. D
4. C
5. D
6. C
7. D
8. B
9. A
10. F
11. E
12. H
13. G
14. accelerating
15. increasing
16. a force
17. a newton
18. gravity
19. a kilogram
20. friction
21. A
22. D
23. B

Standardized Test Preparation

READING

Passage 1

1. C
2. I
3. B

Passage 2

1. B
2. F
3. D

INTERPRETING GRAPHICS

1. C
2. G
3. B

MATH

1. C
2. H
3. A
4. G

Vocabulary Activity

1. C
2. E
3. J
4. F
5. H
6. K
7. D
8. M
9. A
10. G
11. L
12. I
13. O
14. B
15. N

SciLinks Activity

1. Answers may vary. Sample answer: A batter on a baseball team hopes to get a line drive into right field. She knows the wind velocity is strong to the east, and the batter's box faces north. She figures the wind velocity would cause balls hit along the right field line to drift foul. She changes the direction of her stance at the plate, shifting slightly to the west to compensate for the effects of the wind.
2. Answers may vary. Sample answer: Writing on the chalkboard at school is easy because of the friction of the chalk sliding across the board. Without friction, this would not bepossible.
3. The slope shows the acceleration of the object, either positive or negative.

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