## UNIT 1 • RELATIONSHIPS BETWEEN QUANTITIES AND EXPRESSIONS
### Lesson 2: Units of Measure

### Problem-Based Task 1.2.1: Man Versus Cat

During the 100-meter sprint final in the 2009 IIAF World Championships in Athletics in Berlin, Usain Bolt ran the last 20 meters of the race in 1.61 seconds. How fast is this in miles per hour? Round your answer to the nearest whole number. If Usain Bolt raced a house cat, who would win? *Note*: One mile is approximately 1.6 kilometers, and a house cat can run up to 30 miles per hour for short distances.

| SMP | |
|---|---|
| 1 ✓ | 2 ✓ |
| 3 | 4 ✓ |
| 5 | 6 |
| 7 ✓ | 8 ✓ |



*If Usain Bolt raced a house cat, who would win?*