Answer Key: Similar Shadows

Initial Setting

Little Bat and Big Bat
  1. How tall is the little bat? 3 ft.
  2. How long is its shadow? 2.25 ft.
  3. What’s the decimal value of this ratio: bat’s height to shadow’s length? 1.33
  4. How long is the big object’s shadow? 7.5 ft.
  5. How tall is the big object? 10 ft.
  6. What’s the decimal value of this ratio: object’s height to shadow’s length? 1.33

Little Bat and Street Lamp
  1. How tall is the little bat? 3 ft.
  2. How long is its shadow? 2.25 ft.
  3. What’s the decimal value of this ratio: bat’s height to shadow’s length? 1.33
  4. How long is the big object’s shadow? 10.1 ft.
  5. How tall is the big object? 13.5 ft.
  6. What’s the decimal value of this ratio: object’s height to shadow’s length? 1.33

Little Bat and Basketball Goal
  1. How tall is the little bat? 3 ft.
  2. How long is its shadow? 2.25 ft.
  3. What’s the decimal value of this ratio: bat’s height to shadow’s length? 1.33
  4. How long is the big object’s shadow? 8.3 ft.
  5. How tall is the big object? 11 ft.
  6. What’s the decimal value of this ratio: object’s height to shadow’s length? 1.33

Little Bat and Sign
  1. How tall is the little bat? 3 ft.
  2. How long is its shadow? 2.25 ft.
  3. What’s the decimal value of this ratio: bat’s height to shadow’s length? 1.33
  4. How long is the big object’s shadow? 5.3 ft.
  5. How tall is the big object? 7 ft.
  6. What’s the decimal value of this ratio: object’s height to shadow’s length? 1.33

Little Bat and The Babe
  1. How tall is the little bat? 3 ft.
  2. How long is its shadow? 2.25 ft.
  3. What’s the decimal value of this ratio: bat’s height to shadow’s length? 1.33
  4. How long is the big object’s shadow? 4.6 ft.
  5. How tall is the big object? 6.2 ft.
  6. What’s the decimal value of this ratio: object’s height to shadow’s length? 1.33
Dawn

Little Bat and Big Bat
1. How tall is the little bat? 3 ft.
2. How long is its shadow? 3.9 ft.
3. What’s the decimal value of this ratio: bat’s height to shadow’s length? 0.77
4. How long is the big object’s shadow? 13 ft.
5. How tall is the big object? 10 ft.
6. What’s the decimal value of this ratio: object’s height to shadow’s length? 0.77

Little Bat and Street Lamp
1. How tall is the little bat? 3 ft.
2. How long is its shadow? 3.9 ft.
3. What’s the decimal value of this ratio: bat’s height to shadow’s length? 0.77
4. How long is the big object’s shadow? 17.6 ft.
5. How tall is the big object? 13.5 ft.
6. What’s the decimal value of this ratio: object’s height to shadow’s length? 0.77

Little Bat and Basketball Goal
1. How tall is the little bat? 3 ft.
2. How long is its shadow? 3.9 ft.
3. What’s the decimal value of this ratio: bat’s height to shadow’s length? 0.77
4. How long is the big object’s shadow? 14.3 ft.
5. How tall is the big object? 11 ft.
6. What’s the decimal value of this ratio: object’s height to shadow’s length? 0.77

Little Bat and Sign
1. How tall is the little bat? 3 ft.
2. How long is its shadow? 3.9 ft.
3. What’s the decimal value of this ratio: bat’s height to shadow’s length? 0.77
4. How long is the big object’s shadow? 9.1 ft.
5. How tall is the big object? 7 ft.
6. What’s the decimal value of this ratio: object’s height to shadow’s length? 0.77

Little Bat and The Babe
1. How tall is the little bat? 3 ft.
2. How long is its shadow? 3.9 ft.
3. What’s the decimal value of this ratio: bat’s height to shadow’s length? 0.77
4. How long is the big object’s shadow? 8 ft.
5. How tall is the big object? 6.2 ft.
6. What’s the decimal value of this ratio: object’s height to shadow’s length? 0.77
Midmorning

Little Bat and Big Bat
1. How tall is the little bat? 3 ft.
2. How long is its shadow? 2.7 ft.
3. What’s the decimal value of this ratio: bat’s height to shadow’s length? 1.11
4. How long is the big object’s shadow? 9 ft.
5. How tall is the big object? 10 ft.
6. What’s the decimal value of this ratio: object’s height to shadow’s length? 1.11

Little Bat and Street Lamp
1. How tall is the little bat? 3 ft.
2. How long is its shadow? 2.7 ft.
3. What’s the decimal value of this ratio: bat’s height to shadow’s length? 1.11
4. How long is the big object’s shadow? 12.2 ft.
5. How tall is the big object? 13.5 ft.
6. What’s the decimal value of this ratio: object’s height to shadow’s length? 1.11

Little Bat and Basketball Goal
1. How tall is the little bat? 3 ft.
2. How long is its shadow? 2.7 ft.
3. What’s the decimal value of this ratio: bat’s height to shadow’s length? 1.11
4. How long is the big object’s shadow? 9.9 ft.
5. How tall is the big object? 11 ft.
6. What’s the decimal value of this ratio: object’s height to shadow’s length? 1.11

Little Bat and Sign
1. How tall is the little bat? 3 ft.
2. How long is its shadow? 2.7 ft.
3. What’s the decimal value of this ratio: bat’s height to shadow’s length? 1.11
4. How long is the big object’s shadow? 6.3 ft.
5. How tall is the big object? 7 ft.
6. What’s the decimal value of this ratio: object’s height to shadow’s length? 1.11

Little Bat and The Babe
1. How tall is the little bat? 3 ft.
2. How long is its shadow? 2.7 ft.
3. What’s the decimal value of this ratio: bat’s height to shadow’s length? 1.11
4. How long is the big object’s shadow? 5.5 ft.
5. How tall is the big object? 6.2 ft.
6. What’s the decimal value of this ratio: object’s height to shadow’s length? 1.11
Late Afternoon

Little Bat and Big Bat
1. How tall is the little bat? 3 ft.
2. How long is its shadow? 1.65 ft.
3. What’s the decimal value of this ratio: bat’s height to shadow’s length? 1.82
4. How long is the big object’s shadow? 5.5 ft.
5. How tall is the big object? 10 ft.
6. What’s the decimal value of this ratio: object’s height to shadow’s length? 1.82

Little Bat and Street Lamp
1. How tall is the little bat? 3 ft.
2. How long is its shadow? 1.65 ft.
3. What’s the decimal value of this ratio: bat’s height to shadow’s length? 1.82
4. How long is the big object’s shadow? 7.4 ft.
5. How tall is the big object? 13.5 ft.
6. What’s the decimal value of this ratio: object’s height to shadow’s length? 1.82

Little Bat and Basketball Goal
1. How tall is the little bat? 3 ft.
2. How long is its shadow? 1.65 ft.
3. What’s the decimal value of this ratio: bat’s height to shadow’s length? 1.82
4. How long is the big object’s shadow? 6 ft.
5. How tall is the big object? 11 ft.
6. What’s the decimal value of this ratio: object’s height to shadow’s length? 1.82

Little Bat and Sign
1. How tall is the little bat? 3 ft.
2. How long is its shadow? 1.65 ft.
3. What’s the decimal value of this ratio: bat’s height to shadow’s length? 1.82
4. How long is the big object’s shadow? 3.9 ft.
5. How tall is the big object? 7 ft.
6. What’s the decimal value of this ratio: object’s height to shadow’s length? 1.82

Little Bat and The Babe
1. How tall is the little bat? 3 ft.
2. How long is its shadow? 1.65 ft.
3. What’s the decimal value of this ratio: bat’s height to shadow’s length? 1.82
4. How long is the big object’s shadow? 3.4 ft.
5. How tall is the big object? 6.2 ft.
6. What’s the decimal value of this ratio: object’s height to shadow’s length? 1.82