Lesson 8.3 Practice: Proving Triangles Similar: AA

School Launch · Geometry · Unit 8: Similarity · Worksheet A

Calculator allowed

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Henry is 6 ft tall and casts a 3 ft shadow. At the same moment a tree casts a 40 ft shadow. How tall is the tree?

EASY

2. Esther is 6 ft tall and casts a 12 ft shadow. At the same moment a tree casts a 57 ft shadow. How tall is the tree?

EASY

3. Grace is 6 ft tall and casts a 4 ft shadow. At the same moment a tree casts a 25 ft shadow. How tall is the tree?

EASY

4. Abigail is 4 ft tall and casts a 7 ft shadow. At the same moment a tree casts a 50 ft shadow. How tall is the tree?

MEDIUM

5. Caleb is 5 ft tall and casts a 12 ft shadow. At the same moment a tree casts a 38 ft shadow. How tall is the tree?

MEDIUM

6. Esther is 6 ft tall and casts a 12 ft shadow. At the same moment a tree casts a 33 ft shadow. How tall is the tree?

MEDIUM

7. Abigail is 7 ft tall and casts a 9 ft shadow. At the same moment a tree casts a 43 ft shadow. How tall is the tree?

MEDIUM

8. Miriam is 4 ft tall and casts a 11 ft shadow. At the same moment a tree casts a 52 ft shadow. How tall is the tree? HARD

9. Esther is 7 ft tall and casts a 9 ft shadow. At the same moment a tree casts a 23 ft shadow. How tall is the tree?

HARD

10. Peter is 5 ft tall and casts a 4 ft shadow. At the same moment a tree casts a 48 ft shadow. How tall is the tree?

HARD