

UNIT 6
ASSIGNMENT #7

Working with Special Right Triangles

short leg = $\frac{1}{2} \cdot \text{hypotenuse}$

long leg = $\sqrt{3} \cdot (\text{short leg})$

hypotenuse = $2 \cdot (\text{short leg})$

legs are equal

hypotenuse = $\sqrt{2} \cdot (\text{leg})$

Use the 30-60-90 and 45-45-90 triangle relationships to solve for the missing sides. Use the answers to reveal the name of the team that Abraham M. Saperstein established and sent on the road in 1927.

1

2

3

4

5

6

7

8

9

8	$2\sqrt{2}$	3	6	$5\sqrt{3}$	4	7	12	$8\sqrt{2}$	10	$6\sqrt{3}$
A	B	E	G	H	L	M	O	R	S	T

8b 1b 4a 1b 2a 9b 5b 4b 6a

3a 5b 8a 5a 4a 7a 2b 8a 7b 3b 4b 9a 1a