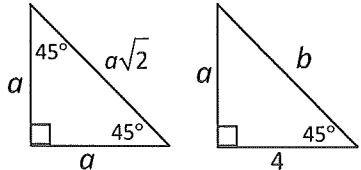
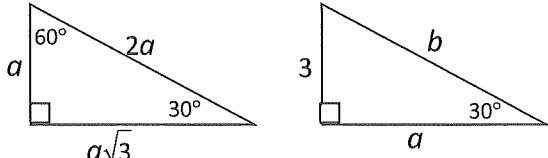
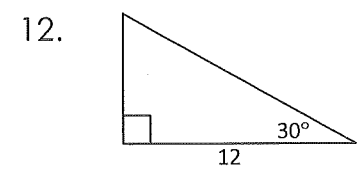
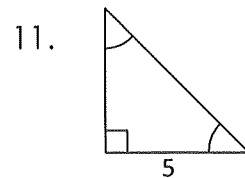
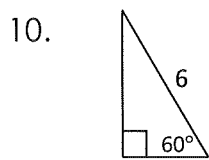
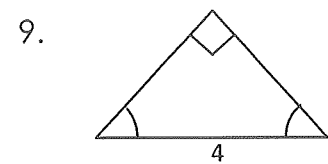
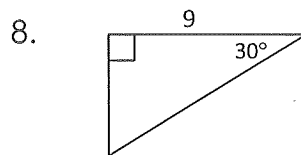
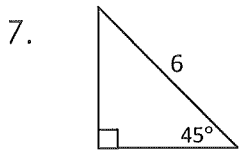
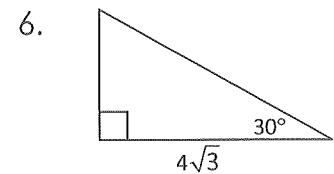
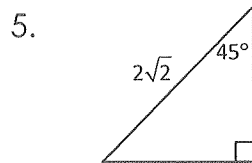
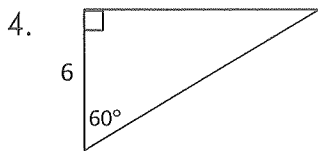
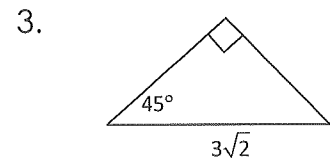
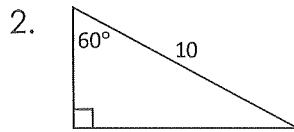
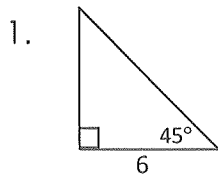


Special Right Triangles

<p style="text-align: center;">Isosceles Right Triangle</p>  <p style="text-align: center;">$a = 4$ $b = 4\sqrt{2}$</p>	<p style="text-align: center;">30-60-90 Triangle</p>  <p style="text-align: center;">$a = 3\sqrt{3}$ $b = 2 \cdot 3 = 6$</p>
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Find the missing sides.

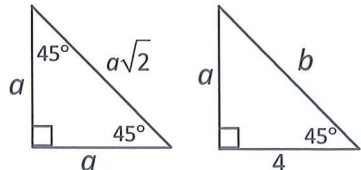
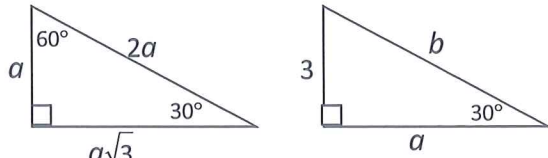


Cross out the correct answers. The remaining letters (one per space) complete the statement.

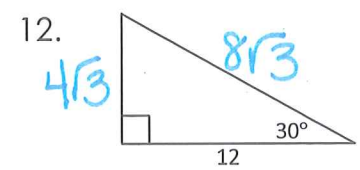
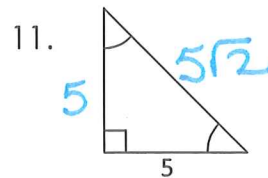
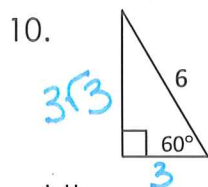
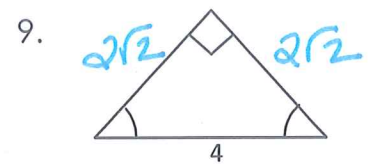
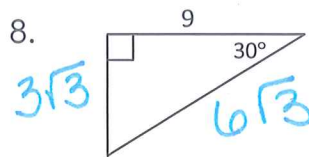
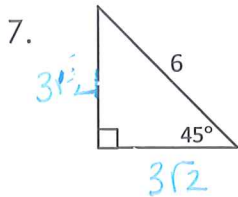
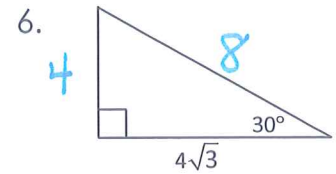
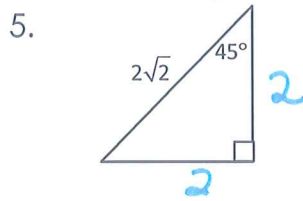
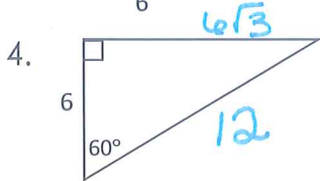
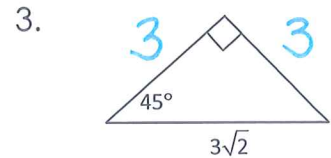
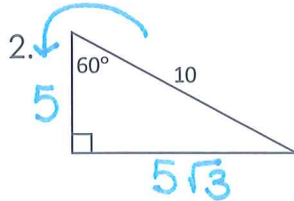
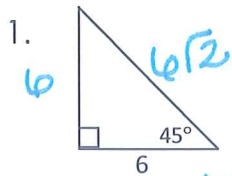
5	9	$6\sqrt{2}$	3	10	$3\sqrt{2}$	3	$4\sqrt{3}$	$3\sqrt{2}$	12	$2\sqrt{2}$
EQ	HA	UA	LT	LF	OT	HE	SQ	UA	RE	RO
$6\sqrt{3}$	$5\sqrt{3}$	25	$3\sqrt{3}$	$6\sqrt{3}$	5	20	3	$3\sqrt{3}$	36	2
OT	OF	TH	ER	AD	IU	EH	SO	FT	YP	PY
11	4	16	6	8	32	$5\sqrt{2}$	2	7	$8\sqrt{3}$	$2\sqrt{2}$
OT	TH	EN	AG	OR	US	AS	TH	E.	T.	S.

In a 30-60-90 degrees right triangle, the side opposite the 30-degree angle is

Special Right Triangles

<p style="text-align: center;">Isosceles Right Triangle</p>  <p style="text-align: center;">$a = 4$ $b = 4\sqrt{2}$</p>	<p style="text-align: center;">30-60-90 Triangle</p>  <p style="text-align: center;">$a = 3\sqrt{3}$ $b = 2 \cdot 3 = 6$</p>
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Find the missing sides.



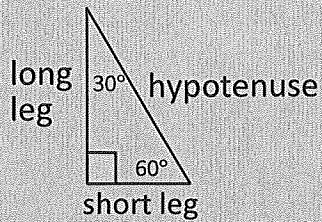
Cross out the correct answers. The remaining letters (one per space) complete the statement.

5 EQ	9 HA	6√2 UA	3 LT	10 LF	3√2 OT	3 HE	4√3 SQ	3√2 UA	12 RE	2√2 RO
6√3 OT	5√3 OF	25 TH	3√3 ER	6√3 AD	5 IU	20 EH	3 SO	3√3 FI	36 YP	2 PY
11 OT	4 TH	16 EN	6 AG	8 OR	32 US	5√2 AS	2 TH	7 E.	8√3 T.	2√2 S.

In a 30-60-90 degrees right triangle, the side opposite the 30-degree angle is

HALF THE HYPOTENUSE.

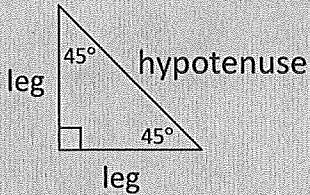
Special Right Triangles



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

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

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



legs are equal

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

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

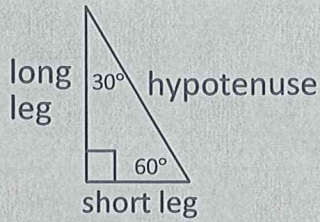
9

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

Special Right Triangles

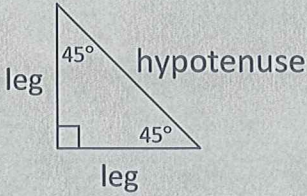
Key



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

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

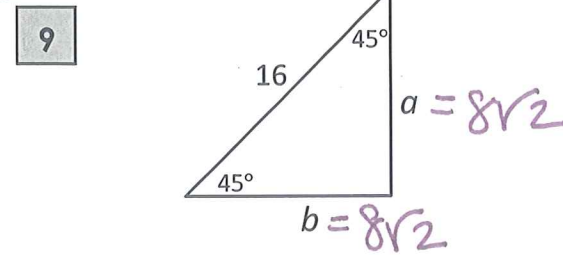
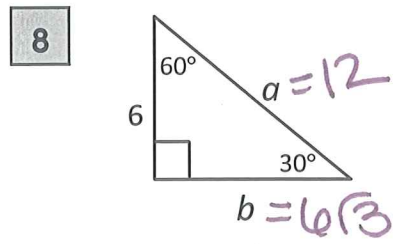
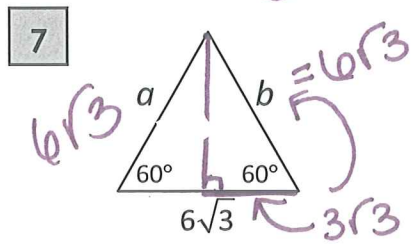
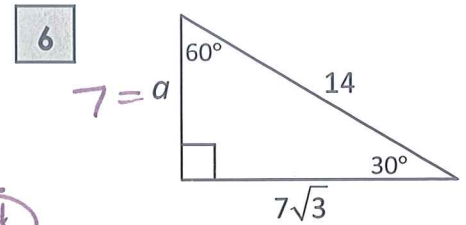
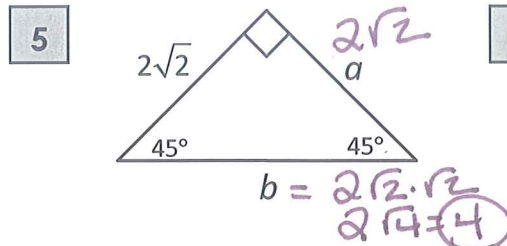
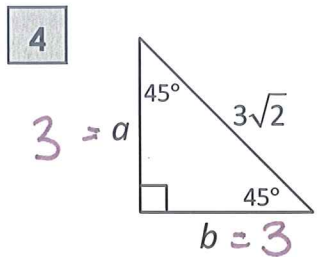
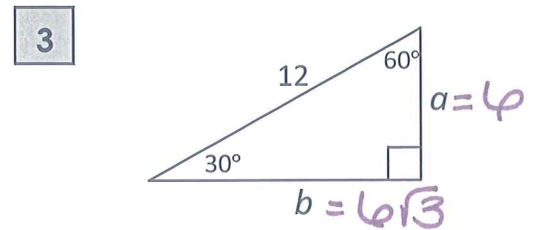
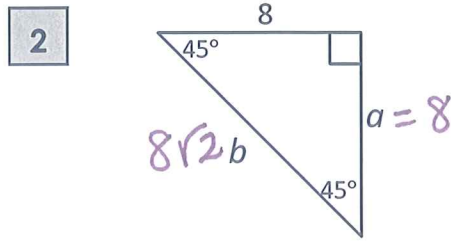
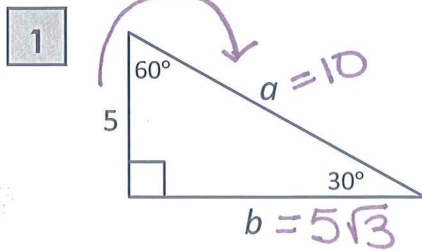
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8	2√2	3	6	5√3	4	7	12	8√2	10	6√3
A	B	E	G	H	L	M	O	R	S	T

T H E H A R L E M

G L O B E T R O T T E R S

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