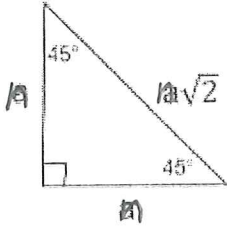


Special Right Triangles

Isosceles Right Triangle

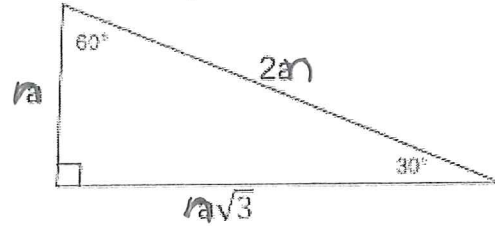
$45^\circ-45^\circ-90^\circ$

Half of a square

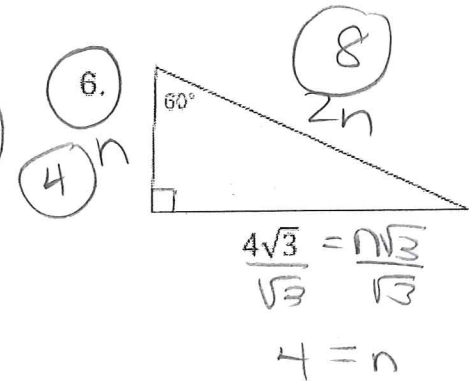
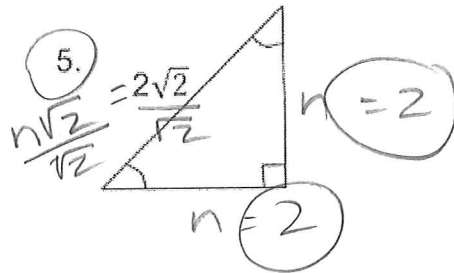
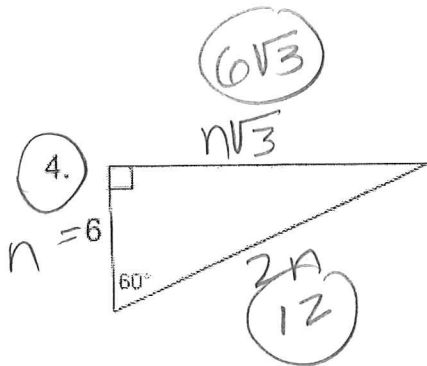
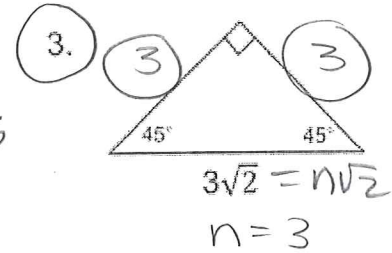
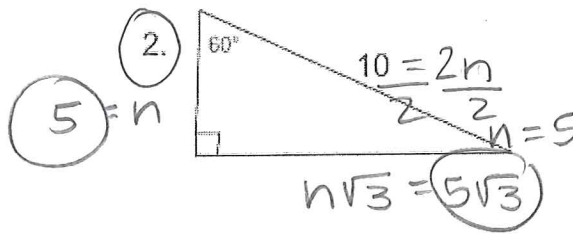
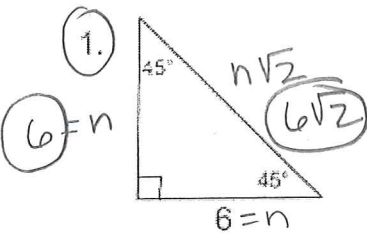


$30^\circ-60^\circ-90^\circ$

Half of an equilateral triangle



Find the missing sides.



7. $6 = n\sqrt{2}$
 $n = \frac{6}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{6\sqrt{2}}{2}$
 $n = 3\sqrt{2}$

8. $9 = n\sqrt{3}$
 $\frac{9}{\sqrt{3}} = n$
 $3\sqrt{3} = n$

9. $4 = n\sqrt{2}$
 $n = \frac{4}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{4\sqrt{2}}{2}$
 $n = 2\sqrt{2}$

10. $6 = \frac{2n}{2}$
 $n = 3$

11. $5 = n\sqrt{2}$
 $n = \frac{5}{\sqrt{2}}$

12. $12 = n\sqrt{3}$
 $n = \frac{12}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{12\sqrt{3}}{3}$
 $n = 4\sqrt{3}$

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{2}	5\sqrt{3}	25	3\sqrt{3}	6\sqrt{2}	5	20	3	3\sqrt{3}	36	2
OT	OF	TH	ER	AD	IU	EH	SO	ET	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 degrees right triangle, the side opposite the 30-degree angle is

HALF THE HYPOTENUSE