Answers

1.	133°; $\angle 1$ and the given angle are supplementary.
2.	133°; $\angle 8$ and $\angle 1$ are alternate exterior angles.
з.	133°; $\angle 1$ and $\angle 4$ are vertical angles.
4.	133°; $\angle 4$ and $\angle 5$ are alternate interior angles.
5.	28°, 129°, 23°
6.	68°, 68°, 44°
7.	60°, 60°, 60°
8.	130°
9.	The exterior angle can have any measure greater than 15° and less than 180°.
10.	90°, 125°, 100°, 100°, 125°
11.	71°, 111°, 88°, 90°
12.	no; The triangles do not have the same angle measures.
13.	yes; The two triangles have two pairs of congruent angles.
14.	Sample answer:
	1) The given angle and $\angle 3$ are supplementary, so $\angle 3 = 115^\circ$; $\angle 3$ and $\angle 5$ are alternate interior angles, so $\angle 3 = \angle 5 = 115^\circ$.
	 The given angle and ∠8 are alternate exterior angles, so

2) The given angle and $\angle 8$ are alternate exterior angles, so $\angle 8 = 65^\circ$; $\angle 5$ and $\angle 8$ are supplementary, so $\angle 5 = 115^\circ$.

15. 60 m