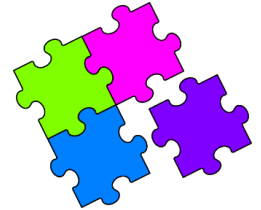
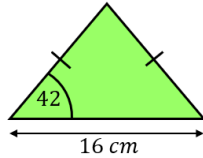


Match-Up



Trigonometry Worded Problems

1	A ladder is placed 1.5 m from the foot of a wall. The ladder reaches 3.8 m vertically up the wall. Find the angle between the ground and the ladder in degrees.
2	A plane-spotter sees a plane in the sky at an angle of elevation of 18° . The plane is a horizontal distance of 40 km from the plane-spotter. Find the vertical height of the plane in kilometres.
3	A bird sits on the ground 9 m away from the base of a Christmas tree. The angle of elevation from the bird to the top of the tree is 52° . How tall is the tree in metres?
4	A ship sails for 150 km on a bearing of 068° . How far North has the ship sailed in kilometres?
5	The angle of depression from the top of a 120 m cliff to a boat in the sea below is 63° . What is the distance in km from the top of the cliff to the boat?
6	A ladder makes an angle of 75° with the ground. The distance of the foot of the ladder to the wall is 1.45 m . How long is the ladder in metres?
7	Find the area of this isosceles triangle in cm^2 .
	
8	Malia is flying a kite on a 20 m long string. The string is at an angle of 35° to the horizontal. Malia is holding the kite 1.1 m above the ground. Find the vertical height of the kite above the ground in metres.

A	13.0
B	134.7
C	57.6
D	68.5
E	12.6
F	11.5
G	56.2
H	5.6

1	2	3	4	5	6	7	8
D	A	F	G	B	H	C	E