





Diagram NOT

accurately drawn















Light bulb boxes are packed into cartons. A carton measures 40 cm by 40 cm by 60 cm.

Work out the number of light bulb boxes which can completely fill **one** carton.

= 150 light bulb boxes























DELTA







ABCD is a parallelogram. EDC is a straight line. F is the point on AD so that BFE is a straight line.

Angle $EFD=35^\circ$ Angle $DCB=75^\circ$

Find angle ABF.



Is the triangle ABC isosceles? Give a reason for each stage of your working.



The diagram shows point A and point B on a map. The point C is due south of A. The bearing of C from B is 235°.

The bearing of a point D from B is 168°.

Find the bearing of *B* from *D*



DELTA







ABCD is a parallelogram. EDC is a straight line. F is the point on AD so that BFE is a straight line.

Angle $EFD=35^\circ$ Angle $DCB=75^\circ$

Find angle ABF.

ABF = 70°





ABC = 46° Vertically opposite angles are equal CAB = 67° Angles on a straight line equal 180 degrees ACB = 67° Angles in a triangle equal 180 degrees

Yes it is isosceles as the base angles are equal.



The diagram shows point A and point B on a map. The point C is due south of A. The bearing of C from B is 235°.

The bearing of a point *D* from *B* is 168°.

Find the bearing of B from D

e = 348°















Vector
$$\mathbf{p}=egin{pmatrix}3\\-1\end{pmatrix}$$
 and vector $\mathbf{q}=egin{pmatrix}-2\\2\end{pmatrix}$

Calculate $\mathbf{p} + \mathbf{q}$













