

7 Two rectangular picture frames are mathematically similar.

- (a) The areas of the frames are  $350 \text{ cm}^2$  and  $1134 \text{ cm}^2$ .  
The width of the smaller frame is 17.5 cm.

Calculate the width of the larger frame.

..... cm [3]

- (b) A picture in the smaller frame has length 15 cm and width 10.5 cm, both correct to the nearest 5 mm.

Calculate the upper bound for the area of this picture.

.....  $\text{cm}^2$  [2]

- (c) In a sale, the price of a large frame is reduced by 18%.  
Parthi pays \$166.05 for 5 large frames in the sale.

Calculate the original price of one large frame.

\$ ..... [2]

- (d) Parthi advertises a large frame for a price of \$57 or 48.20 euros.  
The exchange rate is \$1 = 0.88 euros.

Calculate the difference between these prices, in dollars and cents, correct to the nearest cent.

\$ ..... [3]