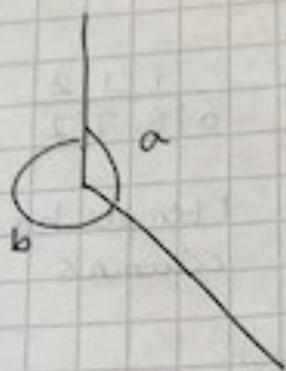
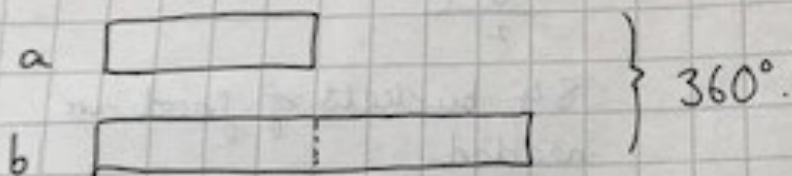


7. a)



a is half the size of b.

Imagine as a bar model:



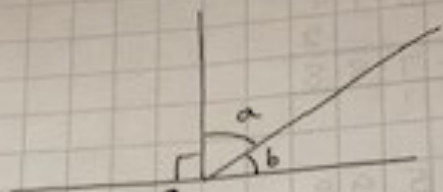
I can see there are 3 equal pieces.

$$360^\circ \div 3 = 120^\circ$$

Each piece is 120° .

So angle $a = 120^\circ$, angle $b = 2 \times 120^\circ = 240^\circ$.

7. b)



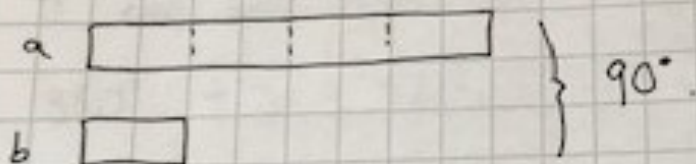
Remember this represents a right angle which is 90° .

Angles on a straight line = 180° .

$$\text{So } 90^\circ + a + b = 180^\circ.$$

$$a + b = 90^\circ.$$

a is four times the size of b:



There are 5 equal pieces.

$$90^\circ \div 5 = 18^\circ.$$

$$\text{angle } b = 18^\circ.$$

$$\text{angle } a = 18^\circ \times 4 \rightarrow$$

$$\begin{array}{r} 18 \\ \times 4 \\ \hline 72 \end{array}$$

so 72° .

Sorry! My mistake!

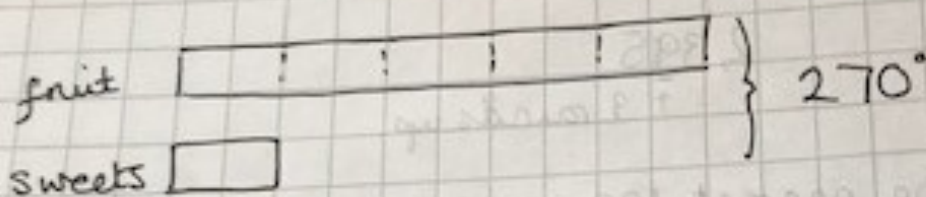
8. A pie chart is a full circle so 360° .

A quarter like chocolate.

$$\frac{1}{4} \text{ of } 360^\circ = 360^\circ \div 4 = 90^\circ.$$

So chocolate = 90° .

$360^\circ - 90^\circ = 270^\circ$ so 270° represents sweets and fruit.



There are 6 equal pieces.

$$\begin{array}{r} 045 \\ 6 \overline{) 270} \end{array}$$

Sweets = 45° .

Fruit = $45^\circ \times 5 \rightarrow 45$ so 225° .

$$\begin{array}{r} \times 5 \\ 45 \\ \hline 225 \\ \hline \end{array}$$