

Cambridge O Level MATHEMATICS (SYLLABUS D) 4024

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Paper 2 Calculator

May/June 2025

Questions (3-4)

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- 3 (a) Write the ratio 175 ml : 2.5 litres in its simplest form.

..... : [2]

- (b) Dan, Erika and Fatik share \$540 in the ratio 4:5:3.

Find the amount that Erika receives.

\$ [2]

Solution:

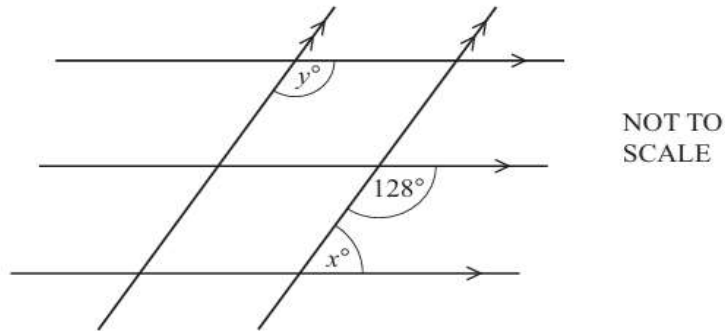
(a) $175 \text{ ml} : 2.5 \text{ litres}$
 $175 \text{ ml} : 2.5 \times 1000 \text{ ml}$ $\leftarrow 1 \text{ litre} = 1000 \text{ ml}$
 $175 \text{ ml} : 2500 \text{ ml}$
 $175 : 2500$
 $\frac{175}{25} : \frac{2500}{25}$
 $7 : 100$ Ans

(b)

Sum of ratio = $4 + 5 + 3$
 $= 12$

Erika share = $\frac{5}{12} \times \$540$ $\leftarrow 5 \text{ is Erika part}$
 $= \$225$

4



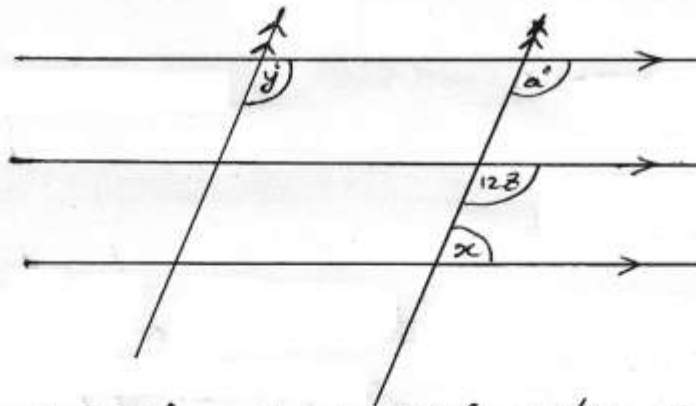
Find the value of x and the value of y .

$x = \dots\dots\dots$

$y = \dots\dots\dots$

[2]

Solution:



As x° and 128° are supplementary angle, so

$$x^\circ + 128^\circ = 180^\circ$$

$$x^\circ = 180 - 128$$

$$x^\circ = 52^\circ$$

Due to given parallel lines

a° is corresponding angle of y°

$$\rightarrow y^\circ = a^\circ$$

$$y^\circ = 128^\circ$$

$= a^\circ$ is corresponding angle of 128°

