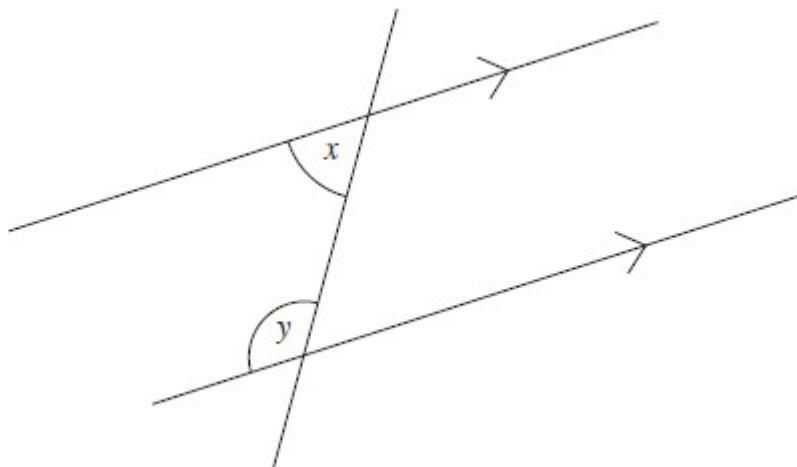


Q1.

Not drawn accurately



- (a) Use the diagram to write an equation connecting x and y .

Answer

(1)

- (b) The ratio $x : y = 2 : 3$

Use this information to write another equation connecting x and y .

.....

.....

Answer

(1)

(Total 2 marks)

Q2. A fruit drink is made by mixing juice and lemonade in the ratio

$$\text{juice : lemonade} = 1 : 4$$

Juice costs £6.00 per litre.

Lemonade costs 50p per litre.

- (a) Show that 1 litre of the fruit drink costs £1.60 to make.

.....
.....
.....

(3)

- (b) The fruit drink is sold for £2 a litre.

Work out the percentage profit.

.....
.....
.....

Answer %

(2)
(Total 5 marks)

Q3. Alice has £4. Billie has twice as much as Alice.

Billie has two-thirds of the amount Chris has.
The amount Chris has is four-fifths of his age in years.
How old is Chris?

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

Answer years

(Total 4 marks)

- Q4.(a)** A shop sells red roses and white roses in the ratio 7 : 2
One day 392 red roses are sold.

How many white roses are sold?

.....
.....

Answer

(2)

- (b)** A different shop sells red roses and white roses in the ratio 8 : 3

What is the probability that a rose, sold at random, is red?

.....

Answer

(1)

(Total 3 marks)