

16. (a) Write an expression for each of the following.

- (i) Patrice thinks of a number x , she multiplies it by 4 then subtracts 3.

Answer: _____ [1]

- (ii) Angelo thinks of the same number x , he multiplies it by 2 then subtracts 7

Answer: _____ [1]

- (b) The two expressions are equal.

Form an equation to show this.

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Answer: _____ [1]

- (c) Solve your equation to find the value of x .

Answer: _____ [4]

16. 515.779

Write the above number correct to:

- (i) 2 significant figures

Answer: _____ [1]

- (ii) 2 decimal places

Answer: _____ [1]

- (iii) nearest whole number

Answer: _____ [1]

16. Ms. Jones is paid \$8.50 per hour when she works a basic 40-hour week.

- (i) Calculate her basic weekly pay.

Answer: _____ [2]

- (ii) Overtime is paid at double time.

Calculate her pay for one hour of overtime.

Answer: _____ [2]

- (iii) In a certain week, she works 48-hours.

Find the number of hours of overtime she worked.

Answer: _____ [1]

- (iv) Calculate her overtime pay.

Answer: _____ [2]

- (v) Calculate the total pay for Ms. Jones 48-hour week.

Answer: _____ [2]

16. (a) A gardener works a basic week of 40 hours. He is paid \$14 per hour.

Calculate his basic weekly pay.

Answer: \$ _____ [2]

- (b) Overtime is paid at time and a half.

Calculate his earning for one hour overtime.

Answer: \$ _____ [2]

- (c) Last week he worked a total of 47 hours.

Find the number of hours of overtime he worked.

Answer: _____ [1]

- (d) Calculate the amount he earned in overtime that week.

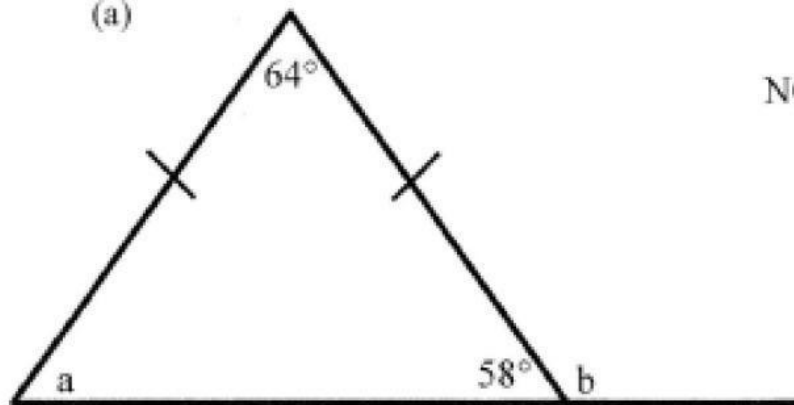
Answer: \$ _____ [2]

- (e) Calculate his total earning for that week.

Answer: \$ _____ [2]

16. Calculate the value of the angles marked by letters

(a)

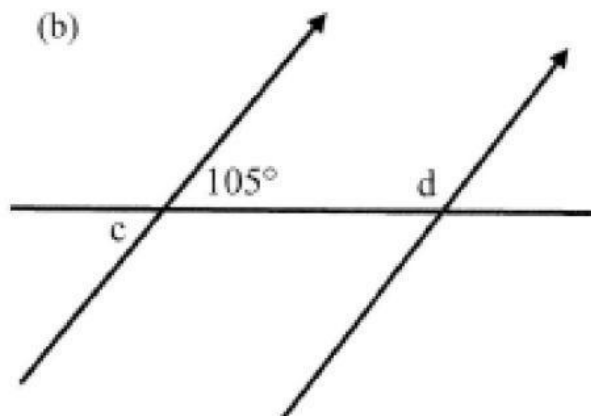


NOT DRAWN TO SCALE

Answer $\angle a =$ _____ $^\circ$ [1]

Answer $\angle b =$ _____ $^\circ$ [2]

(b)



NOT DRAWN TO SCALE

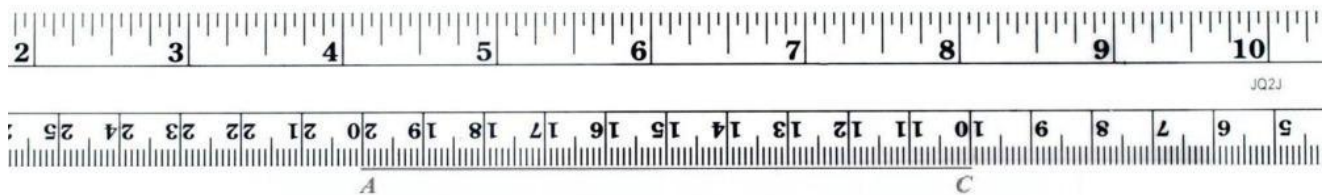
Answer $\angle c =$ _____ $^\circ$ [1]

Answer $\angle d =$ _____ $^\circ$ [2]

16. The side AC of triangle ABC has been drawn below.

- (a) Use a pencil, ruler and a pair of compasses ONLY to complete the construction of triangle ABC with $AB = 6$ cm and $BC = 8$ cm. [4]

**CLICK ON LINK BELOW FOR CONSTRUCTING TRIANGLE
GIVEN THE LENGTH OF THE THREE SIDES**



- (b) Measure and state in *cm* the length of line segment AC .

Answer: _____ cm [1]

- (c) Use a protractor to measure and state the size of angle B .

Answer: _____ ° [1]

- (d) Give the geometrical name of triangle ABC .

Answer: _____ [1]