

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]

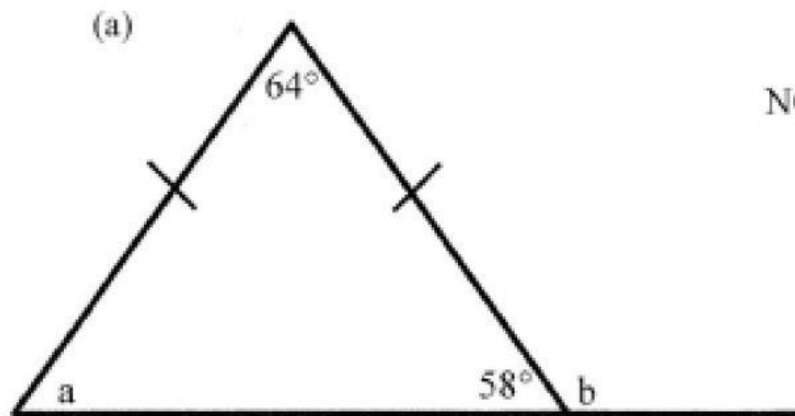
- (d) Calculate the amount he earned in overtime that week.

Answer: \$ \_\_\_\_\_ [2]

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

Answer: \$ \_\_\_\_\_ [2]

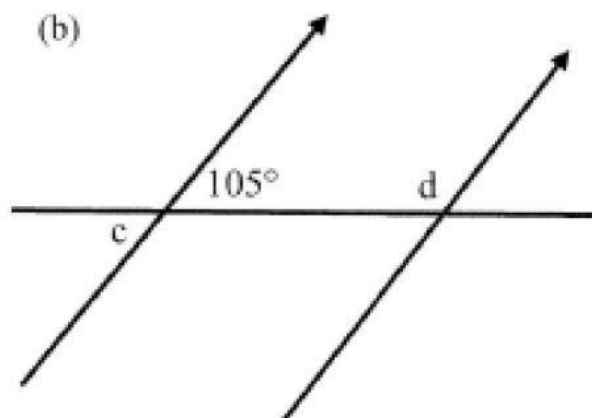
16. Calculate the value of the angles marked by letters



NOT DRAWN TO SCALE

Answer  $\angle a =$  \_\_\_\_\_ ° [1]

Answer  $\angle b =$  \_\_\_\_\_ ° [2]



NOT DRAWN TO SCALE

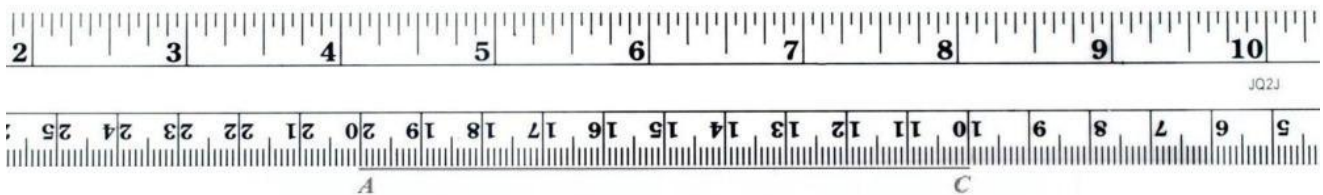
Answer  $\angle c =$  \_\_\_\_\_ ° [1]

Answer  $\angle d =$  \_\_\_\_\_ ° [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]