

8. There are 1200 students at Tropical High School. The ratio of boys to girls is 3:5.

(a) How many girls are in the school?

Fraction of Girls = _____

Computation of Girls

$$\text{_____} \times \frac{1200}{1}$$

Number of Girls

Answer: _____ [4]

(b) 9 more boys entered the school.

If the ratio remains the same how many girls entered?

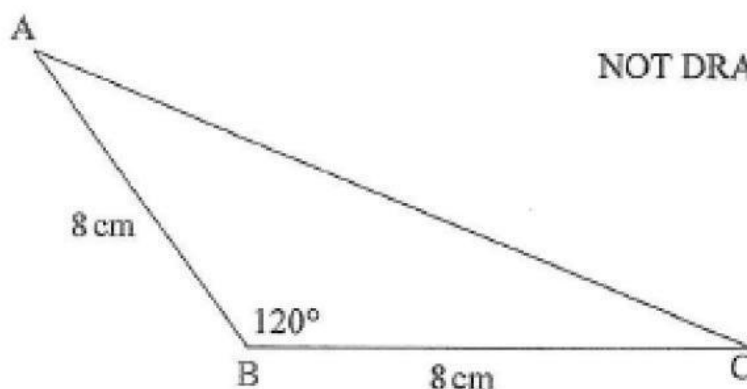
3 boys: 5 girls

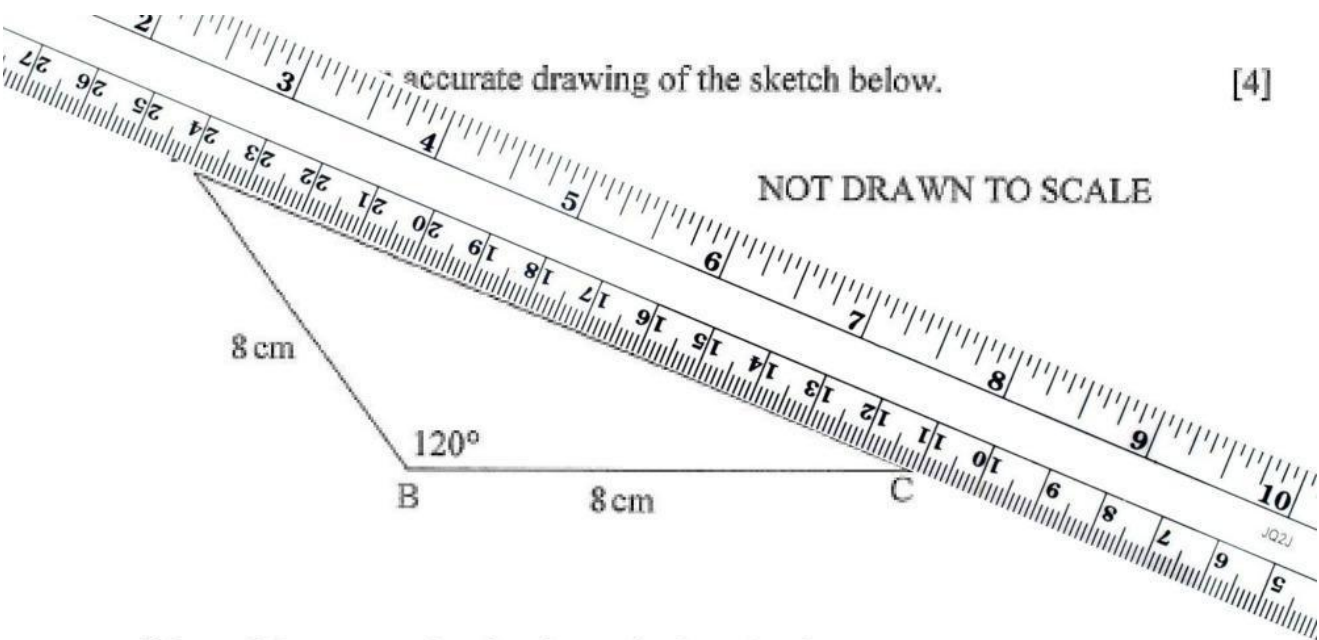
boys: girls

boys: girls

Answer: _____ [3]

8. (a) Make an accurate drawing of the sketch below. [4]





(b) Measure and write down the length of AC.

Answer: _____ [1]

(c) What type of triangle is ABC?

Answer: _____ [1]

8. A scuba diver is diving at a depth of -4 feet. He dives down another 8 feet then rises 5 feet.

At what new level is he diving?

Answer: _____ metres [2]

8. Travis and Bradley share 140 baseball cards in the ratio 4:3.

(a) Calculate the amount of cards Travis receives.

Fraction Travis receives = _____

Computation of Cards

$$\text{_____} \times \frac{140}{1}$$

Number of Cards

Answer: _____ [3]

- (b) Bradley gave $\frac{2}{3}$ of his cards to Justin.

Calculate the amount of cards Justin received.

Computation of Cards

————— × —————

Number of Cards

Answer: _____ [3]

8.

10,000

A man borrowed \$10,000 from the bank for 3 years at 12% per annum.

Calculate the

- (a) interest he is charged,

Answer: \$ _____ [3]

- (b) amount of the loan.

Answer: \$ _____ [2]

8. Isaiah thinks of a number doubles it and adds 3.

- (a) Write an expression to show the phrase above.

Answer: _____ [2]

His result is 15.

- (b) Write an equation to show this information.

= 15

Answer: _____ [1]

- (c) Solve the equation to determine the number Isaiah thought of.

Answer: _____ [2]

8. Ms. Smith wants to purchase a car that is priced at \$6000.

She borrows the money from the bank for 3 years at 15% per annum simple interest.

Calculate the

(a) interest to be paid after the 3 years,

Answer: _____ [3]

(b) total cost of the car.

Answer: _____ [2]