

9. Mr. Smith purchased 80 pens. He discovered that 15% of them were faulty.  
(a) How many pens were good?

**Percentage Computation**

————— × —————

**Good Pens =**

Answer: \_\_\_\_\_ [3]

- (b) He sold the good pens for 50 cents each. How much money did he make?

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

9. The height of 6 persons were recorded as follows

1.25 m, 1.7 m, 1.55 m, 1.25 m, 1.45 m, 1.2 m

- (a) Determine the modal height.

Answer: \_\_\_\_\_ [1]

- (b) What is the median height?

Answer: \_\_\_\_\_ [3]

- (c) Calculate the average (mean) height of the persons.

**Total Height =**

**Average Height =**

Answer: \_\_\_\_\_ [3]

9. The cash price of a television is \$650.  
It is sold on hire purchase with a 10% down payment followed by 6 equal payments of \$120.

Calculate the:

- (i) amount of the down payment.

**Down Payment Computation**

————— × —————

**Down Payment =**

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

- (ii) total amount of the monthly payments.

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

- (iii) total cost of the television on the hire purchase plan.

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

- (iv) amount saved by paying cash.

Answer: \$ \_\_\_\_\_ [1]

9. Find the sum of three thousand six hundred forty nine and seven thousand.

Answer: \_\_\_\_\_ [3]

9. Mary is given \$90 per week for her allowance.

She spends \$15 on school supplies.

- (a) Calculate the fraction she spends on school supplies.

*(Give your answer in its lowest term.)*

**Original Fraction =** \_\_\_\_\_

**Reduced Fraction =** \_\_\_\_\_

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

- (b) How much money does she have left?

Answer: \_\_\_\_\_ [1]

She spends  $\frac{2}{5}$  of the remaining sum of money on a blouse.

- (c) Calculate the amount of money spent on the blouse.

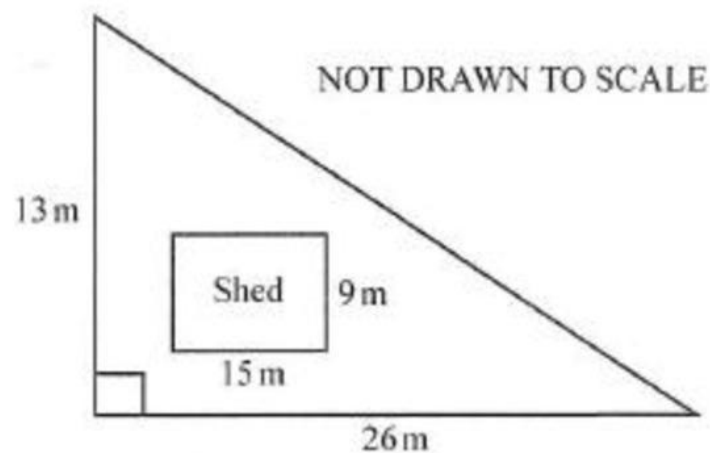
## Money Spent Computation

$$\frac{2}{5} \times \underline{\hspace{2cm}}$$

Money Spent =

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

9. The diagram below shows the dimension of a triangular piece of property and a rectangular shed.



- (a) Calculate the area of

- (i) the property.

Answer: \_\_\_\_\_ m<sup>2</sup> [2]

- (ii) the shed.

Answer: \_\_\_\_\_ m<sup>2</sup> [2]

- (iii) the property around the shed.

Answer: \_\_\_\_\_ m<sup>2</sup> [2]

- (b) Grass is sold for \$2.25 per square metre.

Calculate the cost to cover the property around the shed with grass.

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

9. (a) Draw and label a line  $YZ = 6$  cm long. [2]

- (b) In part (a), using a pencil, ruler and pair of compasses **ONLY** construct a  $60^\circ$  angle at  $Y$ . [2]

**[CLICK TO SEE VIDEO ON DRAWING A  \$60^\circ\$  ANGLE](#)**