

## Mathematic Form 1

### Topic 5: Algebraic expression

Please answer the question carefully.

1. If  $p = -1$  and  $q = 6$ , find the value of each of the following algebraic expressions. [TP1]

a)  $5p + 2q - 3$

Answer:

b)  $7(q - p)$

Answer:

c)  $p^2 - pq + \frac{1}{3}q$

Answer:

d)  $0.5p + 0.2q$

Answer:

2. Represent each quantity of unknown value with the appropriate letter. [TP2]

- a) Azhar used a short time to finish one 100m run.

Answer:

- b) In one Mathematics test, Yun Ting earned the highest marks in his class.

Answer:

- c) The price of the device has increased by RM 20.

Answer:

- d) The factory has a few employees working in the processing division.

Answer:

3. Determine whether the variable in each of the following situations has a fixed value or a variable value. Justify your answer. [TP3]

a) Kavitha's age this year is  $y$  years.

Answer:

b) The time Lee uses to go to school each day is  $t$  minutes.

Answer:

c) The number of tourists who visit Malaysia every year is  $n$  people.

Answer:

d) The maximum number of passengers that the bus can carry is  $x$  people.

Answer:

4. Find the value of each of the following algebraic expressions with the value of the given variable. [TP4]

a)  $3x + y - 9$ , given  $x = 4$  and  $y = 5$

Answer:

b)  $2(p - 3q)$ , given  $p = -7$  and  $q = 2$

Answer:

c)  $\frac{2}{5}hk - k + 9$ , given  $h = 1$  and  $k = -10$

Answer:

5. Izzat has sold  $x$  packs of “nasi lemak” and  $3y$  packs of chicken rice on a certain day.  
[TP6]

a) Write an algebraic expression for the number of food packages Izzat sold that day.

Answer:

b) Izzat sells a packet of “nasi lemak” for RM 2.50 and a packet of chicken rice for RM 4. Given that Izzat's cost on that day is RM 80. Find the profit that Izzat earned that day if the value of  $x$  is 20 and the value of  $y$  is 35.

Answer: