2021 WORKSHEET 9

MATHEMATICS YEAR 8

Answer all the questions in the Mathematics Activity book.

1. Simplify the following expressions using index laws.

a. $(a^6)^4$

   (2 marks)

b. $(4a^4)^2$

   (2 marks)

c. $(6b^5d)^2$

   (2 marks)

d. $(3xy)^3$

   (2 marks)

e. $(w^8)^4$

   (2 marks)

f. $(3k^2p^4)^2$

   (2 marks)

g. $(a^3b^2)^2$

   (2 marks)

h. $(2p^23r^4)^2$

   (2 marks)

i. $(s^5)^3$

   (2 marks)

j. $(4ab)^4$

   (2 marks)

2. Solve these word problems using the equations.

a. Pita collected **_n_** number of coconuts each day. He collected 150 coconuts in 5 days. Find out how many coconuts did he collect on an average each day.

   (2 marks)

b. Sally is **_x_** years old. Her sister is 2 times older than she is. If Sally's sister is 26 years old, how old is Sally.

   (2 marks)

c. Mr. Ram had 120 goats on his farm. His friend Satish gave him **_x_** number of goats from his farm for a week and Mr. Ram now has 125 goats. Find out how many goats were given by Satish.

   (2 marks)