Year 9 Mathematics Worksheet 3

Write the answers in your Exercise Book.

Algebra

1.   Solve these inequalities

      (a) $n + 2n > 9$ **(2 marks)**

      (b) $2n - 6 \leq 6$ **(2 marks)**

      (c) $\dfrac{-x}{2} < \dfrac{7}{2}$ **(2 marks)**

2.   Given that $a = \dfrac{2}{5}$, $b = \dfrac{3}{4}$ and $c = \dfrac{1}{3}$, find the value of

      (a) $a + b$ **(1½ marks)**

      (b) $\dfrac{b}{c}$ **(1½ marks)**

3.   Rose has two baskets; one contains mangoes and the other contains bananas.
Together the baskets weigh 10 kg. Find the weight of the basket of bananas,
if the basket of mangoes weigh 5.75 kg. **(2 marks)**

4.   Rakesh has x dollars in his account. He spends $35.35 to buy medicines for
his grandmother. If the balance in his account is $161. 44, what was the
amount in his account before purchase? **(2 marks)**

Functions

1.   Sketch the graph of the following functions.

      (a) $x = 3$ **(1 mark)**

      (b) $x = -2$ **(1 mark)**

      (c) $y = 0$ **(1 mark)**

      (d) $y = -3$ **(1 mark)**