

RAJHANS VIDYALAYA

ENTRANCE EXAM FOR STD-IX

Mathematics.

Total - 25

SECTION - A

3x3 = 9.

① Solve : $\frac{7y+4}{y+2} = \frac{-4}{3}$

② Find the smallest number by which 9408 must be divided so that the quotient is a perfect square.

③ Calculate the amount and Compound Interest on 18000 for $2\frac{1}{2}$ years at 10% per annum compounded annually.

SECTION - B

4x4 = 16

④ Find the area of a rhombus whose side is 6cm and whose altitude is 4cm.

⑤ A farmer has enough food to feed 20 animals in his cattle for 6 days. How long would the food last if there were 10 more animals in his cattle.

⑥ Factorise : ① $x^4 - (x-3)^4$
② $p^2 + 6p - 16$

⑦ The measures of two adjacent angles of a parallelogram are in the ratio 3:2. Find the measure of each of the angles of the parallelogram.

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