

NAME

Time:

Non-Calculator Questions



1 Estimate the value of $\frac{10.14 \times 4.93}{7.9 - 3.09}$

(3 marks)



3 $\sqrt{70}$ lies between two numbers that each have 1 decimal place.
Work out these two numbers.

(3 marks)



5 Given that $724 \times 28 = 20\,272$, work out the value of

a 0.724×2.8

(1 mark)

b $202.72 \div 2.8$

(1 mark)

c $20\,272 \div 56$

(2 marks)



7 Given that $2 \times \sqrt{8} = 2^n$, work out the value of n .

(2 marks)



9 Work out $\left(2\frac{1}{4}\right)^{\frac{-3}{2}}$

(3 marks)



Calculator Questions



- 11 When two decimal numbers are multiplied, the answer is 0.072
 When the same two decimal numbers are added, the answer is 0.72
 What are the two decimal numbers?

(2 marks)



13 a Work out $\sqrt{4 - 0.35^2}$
 Give your answer as a decimal correct to 3 decimal places.

(2 marks)

13 b Find the value of $(5.0625)^{\frac{1}{4}}$

(1 mark)



15 $A = 2^6 \times 3^5 \times 7$ $B = 2^7 \times 3^8 \times 5$

A and B are numbers written as the product of their prime factors.

a Find the HCF of A and B .

Give your answer in prime factor form.

(1 mark)

b Find the LCM of A and B .

Give your answer in prime factor form.

(2 marks)



17 a Write 0.0348 in standard form.

(1 mark)

b Write 2.9×10^{10} as an ordinary number.

(1 mark)

Overall mark	/25
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