



## Estimation Exam Practice

Q1. Work out an estimate for the value of  $16 \times 38$   
(2 marks)

Q2. Work out an estimate for the value of  $367 \times 29$   
(2 marks)

Q3. Work out an estimate for the value of  $\frac{27.5 \times 18.2}{12.9}$   
(2 marks)

Q4. Work out an estimate for the value of  $\frac{15.2 \times 31.8}{0.55}$   
(2 marks)

Q5. Estimate the value of  $0.0726 \times 194.3281$   
(2 marks)

Q6. Estimate the value of  $246 \div 0.043$   
(2 marks)

Q7. Work out an estimate for the value of  $\frac{16.2 + \sqrt{887.3}}{0.045}$   
(2 marks)

Q8. Work out an estimate for the value of  $\frac{\sqrt{88}}{\sqrt[3]{7.63}}$   
(2 marks)

Q9.a) Round 0.00374 to 1 significant figure.  
(1 mark)

b) Hence estimate the value of  $\frac{0.00374}{0.0821}$   
(2 marks)

Q10. Work out an estimate for the value of  $20\pi - 6.43$   
(2 marks)

Q11. The value of the number  $e$  is approximately 2.71728.  
Estimate the value of  $300e + 46$   
(2 marks)

Q12. Choose which of these sums could have been estimated by  
the value 15.

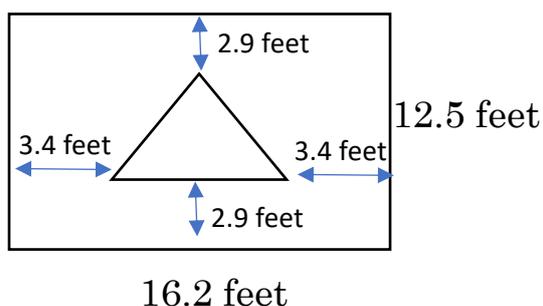
A)  $2.85 \times 5.78$     B)  $\frac{320.5}{10.76}$     C)  $\frac{0.453}{0.028}$     D) 11.2% of 145    E)  $0.029 \times 487$   
(2 marks)



## Applied Mixed Practice Problems

- Q13. a) Rana drives 76 km a week. Estimate the number of miles she drives in a year. (2 marks)
- b) Is your answer to part (a) an over or under estimate? Explain your reasoning. (2 marks)
- Q14. Light travels at 186,232 miles an hour. Estimate how far light travels in a day. (2 marks)
- Q15. A field in the shape of a square has an area  $8752 \text{ m}^2$ . Estimate the perimeter of the field. (3 marks)
- Q16. Ray goes for a run every day. His route is to run from his house to the park which is 3.4 miles away, then around the park which is 0.85 miles, Estimate the number of yards he will run in a year. (4 marks)
- [You are given that **1 mile = 1760 yards**]

- Q17. Below is a garden consisting of a rectangular lawn with a triangular flower bed inside it. Work out an estimate for the area of the lawn.



- Q18. a) Emma earns £11.46 an hour as a waitress. She also gets £4.78 each evening in tips. Emma works 7 evenings a work for 4 hours. Work out an estimate for her total weekly pay. (2 marks)
- b) Is your answer to part (a) an over-estimate, an under-estimate or cannot say? Explain your reasoning. (2 marks)