AQA, OCR, Edexcel

GCSE

GCSE Maths

BIDMAS and Prime Factors Answers

Name:

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Total Marks: /16

BIDMAS and Prime Factors

1. Use BIDMAS to work out the following (non-calculator) :
   a. $\sqrt{10-2\times(-0.5\times26)}$ = 6
   b. $(14\times3)+(7-2)$ = 47
   c. $2^2\times6+(4^2-12)$ = 28

(6 marks)

2. Evaluate the following expressions using BIDMAS. Use of a calculator is recommended:
   a. $\sqrt{\frac{2^4+(\cos(23°)-13)}{((22-3^2)°)+8\times\sin(90°)}}$ = 0.43 (2 d.p)
   b. $\frac{Sin((2^3-9^{-1})°)}{16\times4+9^2}$ = 0.00095 (2 s.f)

(4 Marks)

3. Express the following as product of their prime factors:
   a. 125 = 5^3
   b. 200 = $2^3\times5^2$
   c. 420 = 2^2 x 3 x 5 x 7
   d. 900 = 2^2 x 3^2 x 5^2
   e. 90 = 2 x 3^2 x 5
   f. 36 = 2^2 x 3^2
   g. 999 = 3^3 x 37
   h. 12030 = 2 x 3 x 5 x 401

(10 Marks)