

# Order of Operations

For Pearson Edexcel GCSE Mathematics (1MA1) • Foundation tier

Name \_\_\_\_\_

Total marks: **21**

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Answer **all** questions in the spaces provided. Show your working: marks are given for correct method.  
Do not use a calculator unless told to.

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**1** Work out

(a)  $7 + 2 \times 6$

.....  
(1)

(b)  $30 \div (2 + 4)$

.....  
(1)

(c)  $4^2 - 3 \times 2$

.....  
(1)

(d)  $18 - 6 \div 3 + 1$

.....  
(1)

(e)  $(8 + 4) \div (5 - 2)$

.....  
(1)

**(Total for Question 1 is 5 marks)**

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- 2 Here is a calculation.

$$3 \times 8 - 4 \div 2 = 10$$

Put brackets in to make the calculation correct.

(1)

(Total for Question 2 is 1 mark)

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- 3 Work out  $\frac{5^2 + 11}{2 \times 3}$

.....  
(2)

(Total for Question 3 is 2 marks)

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- 4 (a) Use your calculator to work out  $\frac{\sqrt{19.6}}{2.1^2 - 1.8}$

Write down all the figures on your calculator display.

.....  
(2)

- (b) Write your answer to part (a) correct to 2 decimal places.

.....  
(1)

(Total for Question 4 is 3 marks)

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5 Fatima says  $12 - 4^2 \div 8 = 10$

Is Fatima correct?

You must show your working.

.....  
(2)

**(Total for Question 5 is 2 marks)**

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6 Work out  $2 \times (9 - 4)^2 - \sqrt{64}$

.....  
(2)

**(Total for Question 6 is 2 marks)**

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- 7** Ben works out  $5 + 3 \times 4^2$   
He gets the answer 128

(a) Explain the mistake Ben has made.

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(1)

(b) Work out the correct value of  $5 + 3 \times 4^2$

.....  
(1)

**(Total for Question 7 is 2 marks)**

- 8** (a) Use your calculator to work out  $\frac{(5.7 + 2.8)^2}{3.9 \times 1.6}$   
Write down all the figures on your calculator display.

.....  
(2)

(b) Write your answer to part (a) correct to 1 decimal place.

.....  
(1)

**(Total for Question 8 is 3 marks)**

- 9 Write one pair of brackets in the expression so that its value is 31

$$2 + 4 \times 5 + 1$$

(1)

**(Total for Question 9 is 1 mark)**

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