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# MATHEMATICS



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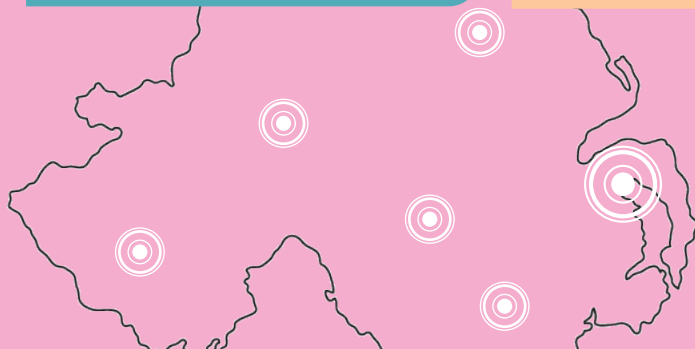
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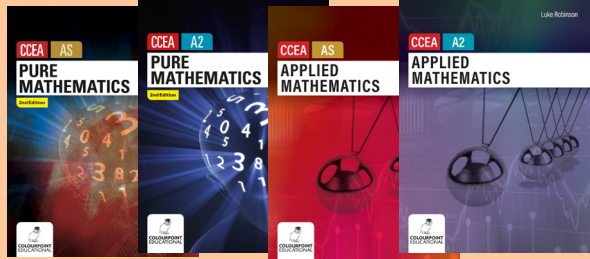
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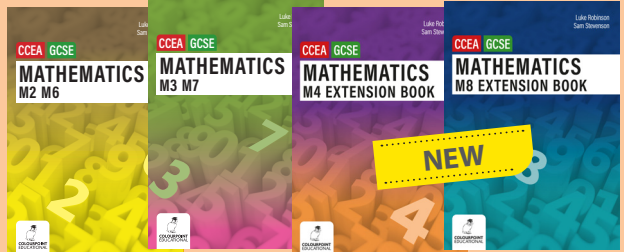


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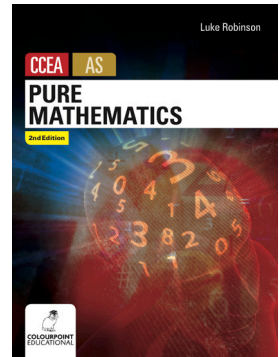
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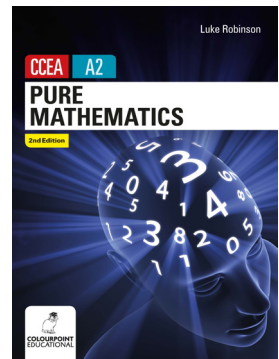
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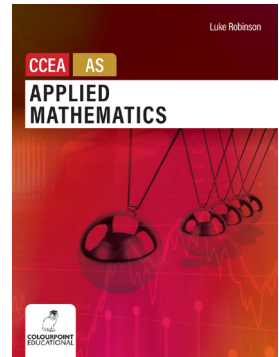
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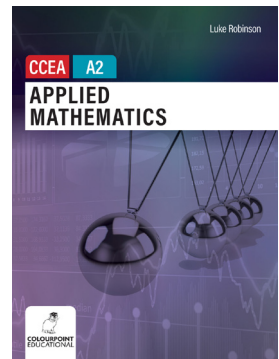
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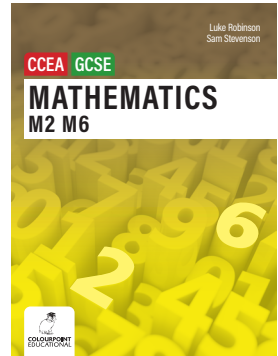


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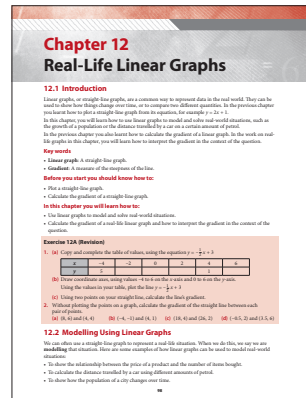
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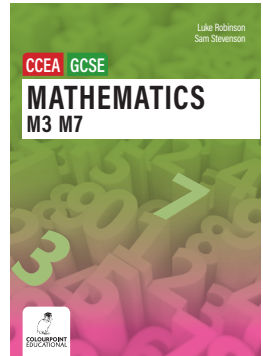
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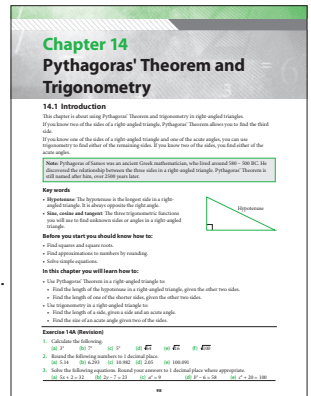
### Contents:

(M3) 1: Numbers; 2: Approximation and Estimation; 3: Percentages and Finance; 4: Bounds; 5: Brackets and Identities; 6: Factorisation; 7: Algebraic Fractions; 8: Linear Equations; 9: Quadratic Equations; 10: Trial and Improvement; 11: Straight Lines; 12: Angles; 13: Circles; 14: Pythagoras' Theorem and Trigonometry; 15: Compound Measure; 16: Perimeter, Area and Volume; 17: Collecting Data; 18: Statistical Averages and Spread; 19: Statistical Diagrams; 20: Scatter Graphs; 21: Cumulative Frequency

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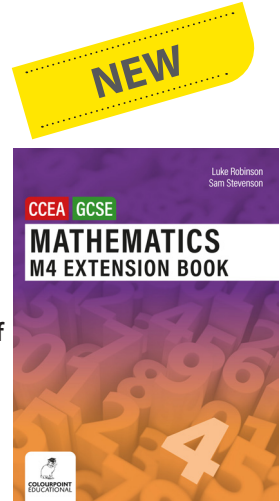
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### Contents (tbc):

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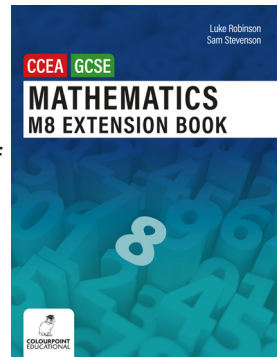
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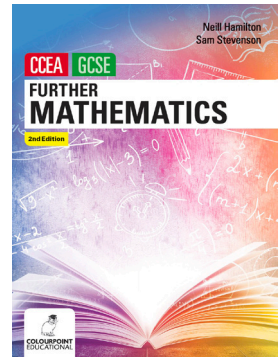


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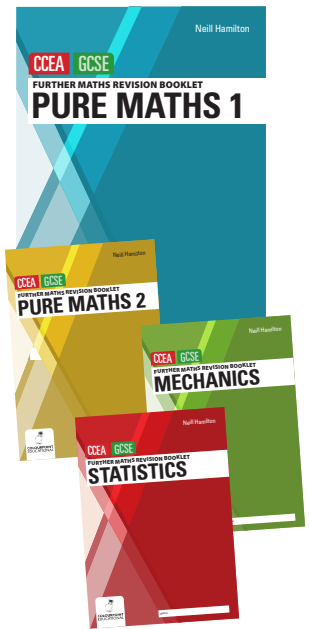
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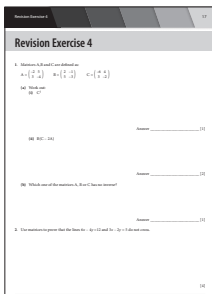
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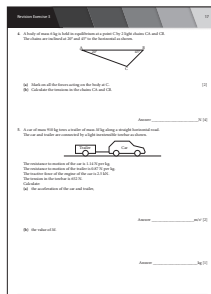
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Sample pages



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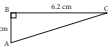
Sample pages

M2

Revision Exercise 5 31

### Revision Exercise 5

1. (a) P and Q have coordinates  $(-3, 1)$  and  $(5, 5)$  respectively. Calculate:  
 (i) the midpoint of PQ Answer \_\_\_\_\_  
 (ii) the length of the line PQ correct to 3 significant figures. Answer \_\_\_\_\_

(b) 

ABC is a tile in a child's mosaic. It is a right angled triangle.  
 $AB = 2.4$  cm and  $BC = 6.2$  cm.  
 Calculate:  
 (i) the area of ABC, Answer \_\_\_\_\_ cm<sup>2</sup>  
 (ii) the length of AC. Answer \_\_\_\_\_ cm

2. (a) Write the number 60 as a product of its prime factors. Answer \_\_\_\_\_

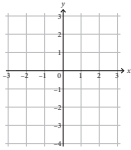
(b) Find the LCM (lowest common multiple) of 60 and 42. Answer \_\_\_\_\_

(c) Find the HCF (highest common factor) of 60 and 42. Answer \_\_\_\_\_

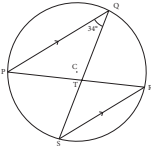
M4

Revision Exercise 1 6

6. ABC is a triangle.  $A(2, -4)$ ,  $B(3, 2)$ ,  $C(-3, 3)$ . Prove that ABC is a right-angled triangle.



7. C is the centre of the circle shown below: PQ is parallel to SR.  $\angle PQS = 34^\circ$

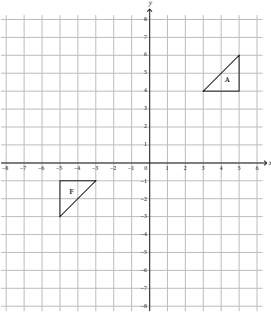


Find the size of the angle:  
 (a)  $\angle PRS$  Answer \_\_\_\_\_ °  
 (b)  $\angle QSR$  Answer \_\_\_\_\_ °  
 (c)  $\angle PTQ$  Answer \_\_\_\_\_ °  
 (d)  $\angle PTS$  Answer \_\_\_\_\_ °

M6

Revision Exercise 2B 22

3. Two triangles, A and F, are shown on the grid below:



(a) Translate triangle A 2 to the left and 2 up.  
 Label the new triangle B. [1]

(b) Reflect triangle A in the y-axis.  
 Label this reflection C. [1]

(c) Reflect triangle A in the line  $y = -1$ .  
 Label this reflection D. [2]

(d) Rotate triangle D  $90^\circ$  clockwise about the origin.  
 Label this image E. [3]

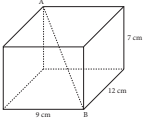
(e) Describe the transformation that maps triangle E onto triangle F.  
 Answer \_\_\_\_\_ [2]

M8

Revision Exercise 2A 17

8. The inverse square law states that the force of attraction,  $F$  newtons, on an object is inversely proportional to the square of the distance,  $x$  cm, from the object.  
 When  $F = 20$ ,  $x = 8$   
 (a) Express  $F$  in terms of  $x$ . Answer  $F =$  \_\_\_\_\_ [3]

(b) What happens to  $F$  when the value of  $x$  is doubled?  
 Answer \_\_\_\_\_ [2]

9. 

A cuboid has dimensions 12 cm by 9 cm by 7 cm as shown in the diagram above.  
 (a) Calculate the length of the space diagonal AB. Answer \_\_\_\_\_ cm [4]

(b) Find the angle that AB makes with the base of the cuboid.  
 Answer \_\_\_\_\_ ° [2]



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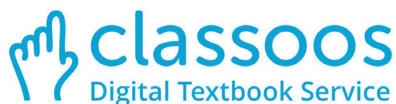


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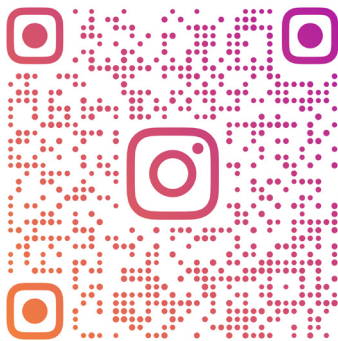


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