

# QT Quick Test 5E



1. Amanda, Brice and Cas save some money in the ratio 3:4:9. Cas saved £150 more than Brice.

a. Show that Amanda saved £90

b. Show that the total amount of money saved is £480

(3 marks)

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2. Write these numbers in order of size. Start with the smallest number.

$4 \times 10^8$

$42 \times 10^6$

$0.044 \times 10^{10}$

$4400 \times 10^4$

(3 marks)

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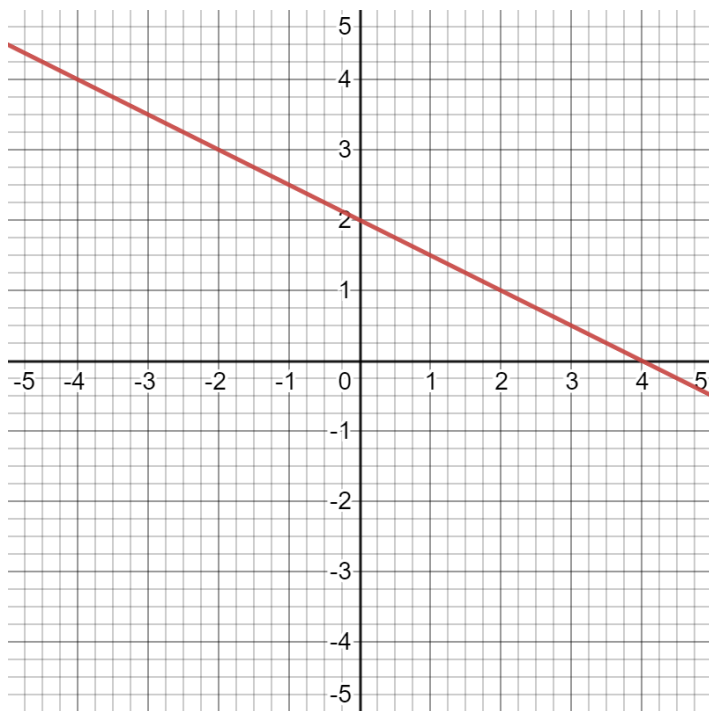


3. Simplify  $(2a^3b^2)^3$

(2 marks)

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4. The line L is drawn on the grid below. Find the gradient of line L.



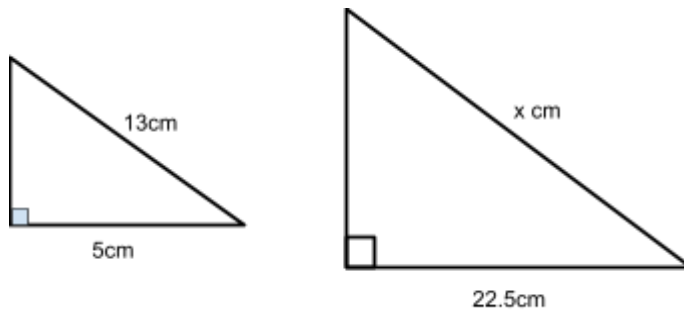
(2 marks)

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5. These triangles are mathematically similar. Calculate the value of  $x$ .



(2 marks)

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6. Shruti buys a house for £192 000. After 3 years Shruti sells the house for £215 000. Calculate the percentage profit Shruti makes. Give your answer correct to 2 decimal places.

(3 marks)

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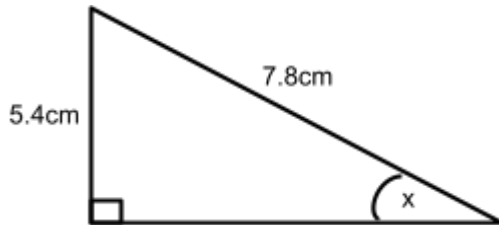
7. A map has a scale of 1 : 40000. The distance between two points on the map is 8cm. Work out the real distance between the two points. Give your answer in kilometres.

(3 marks)

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8. Work out the size of the angle  $x$ . Give your answer correct to 3 significant figures.



(3 marks)

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9. Solve the equation  $9(2x - 1) = 4(5x - 4)$

(3 marks)

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( / 24 marks)