

QT Quick Test 4D

Calculator



1. Cas bought a house for £280000.
In the first year the house price increased by 4%.
In the second year the house decreased by 2%.
In the third year the house increased by 5%.

Work out the value of the house at the end of 3 years.

(3 marks)

2. (a) Simplify $(x^2)^4$

(1 mark)

(b) Simplify $18x^2y^5 \div 3xy^2$

(2 marks)

3. (a) Find the highest common factor (HCF) of 56 and 70
(b) Find the lowest common multiple (LCM) of 56 and 70

(2 marks)

(2 marks)

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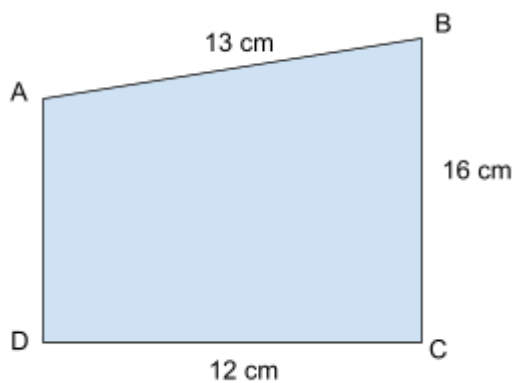


6. Here are the first five terms of a sequence.

32 28 24 20 16

- (a) Find the first negative term in the sequence (1 mark)
(b) Is -27 a term in the sequence? Give a reason for your answer. (1 mark)

7. ABCD is a trapezium. Calculate the length AD. (3 marks)



8. A circle has a diameter of 17cm. Work out the area of the circle. Give your answer correct to 1 decimal place. (2 marks)

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9. (a) y is an integer such that $-4 \leq y \leq 3$. Write down all the possible values of y .
(2 marks)

(b) Solve $4x + 7 \leq x + 22$ (2 marks)

10. The total surface area of a cube is 294 cm^2 . Work out the volume of the cube.
(3 marks)

11. A piece of wood has a mass of 18.5 grams and a volume of 20 cm^3 . Work out the density of the piece of wood in grams / cm^3 .
(3 marks)

12. Julie drove 50 miles in 50 minutes. What speed was Julie driving? Give your answer in miles per hour.
(2 marks)

(/ 36 marks)