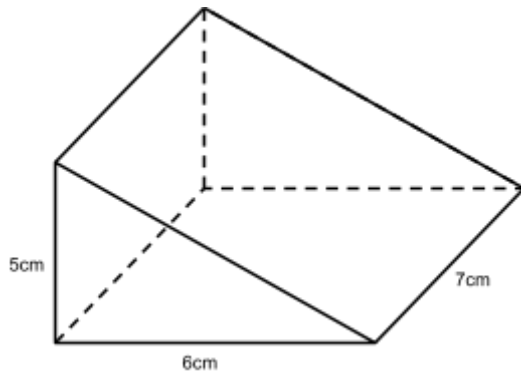




## QT Quick Test 2 - to grade 4

1. Find the total volume of the triangular prism shown.



2. The first five terms of a sequence are

33    28    23    18    13

- (a) Find the value of the first negative number in the sequence
- (b) Find an expression, in terms of  $n$ , for the  $n$ th term of the sequence

3. Work out the size of the exterior angle of a regular octagon.



4. A circle has a radius of 11cm. Work out the circumference of the circle. Give your answer in terms of  $\pi$ .

5. Find the highest common factor (HCF) and lowest common multiple (LCM) of 120 and 150.

6. Joe measured the height of the flowers in his garden. He added the information to the following chart.

(a) Find the class interval that contains the mode

(b) Work out an estimate for the mean height of the flowers in Joe's garden

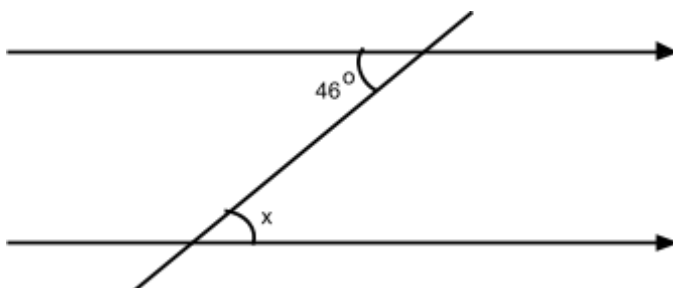
Height (cm)	Frequency	
$120 < h \leq 140$	4	
$140 < h \leq 160$	8	
$160 < h \leq 170$	10	
$170 < h \leq 190$	3	



7. Aishu buys a house for £180 000. She sells the house for £192600. Calculate the percentage profit Aishu makes when she sells the house.

8. Julie goes on holiday to Italy. The exchange rate is £1 = €1.18. She changes £250 into Euros (€). Work out how many Euros Julie receives.

9. Write down the size of angle  $x$ . Give a reason for your answer.





10. Miss Jones wants to buy a calculator for every student in year 10. There are 108 students in year 10. Each calculator costs £11.95. Work out an estimate for the amount of money Miss Jones will spend on calculators.

11. Work out 125% of 180.

12. The lengths of the sides of a triangle are  $2x + 4$ ,  $2x + 7$  and  $2x - 5$ .
- (a) Write down an expression for the perimeter of the triangle
  - (b) The perimeter of the triangle is 36cm. Calculate the value of  $x$ .
  - (c) Calculate the length of each side of the triangle.

