

National 4 Expressions NAB Part 1 Practice Test (2)

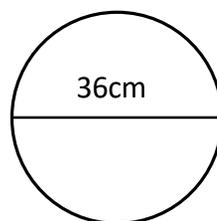
(1) Simplify $12x + 2y - 9x + 3y$

(2) Expand and simplify $8(3x + 4)$

(3) Factorise $3x + 24$

(4) When $g = 4$ and $h = 2$ Find $2g + 3h$

(5) This circle has a diameter of 36cm



(a) Calculate the circumference of the circle

(b) Calculate the area of the circle

(6) Copy and complete the table

Tables (T)	1	2	3	4	5	30
Seats (S)	4	6	8				

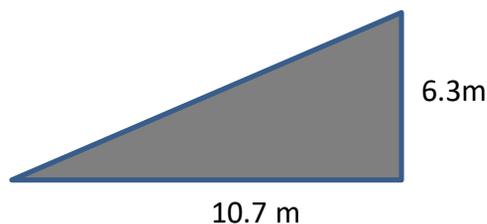
(a) Write down the formula connecting seats (S) with the tables (T)

(b) How many tables are required for 102 seats?

(7) Council regulations state that the gradient of a ramp must be no more than 0.8

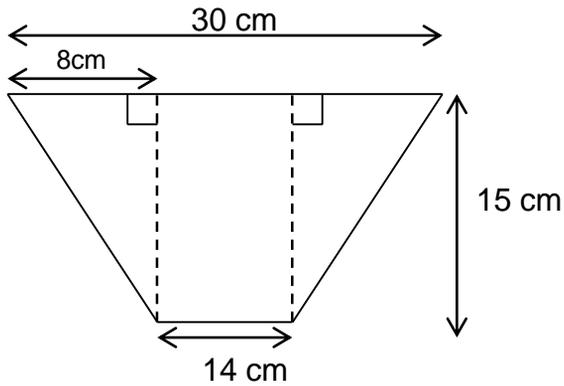
(a) Calculate the gradient of the ramp

(b) Does the ramp meet the regulations ?

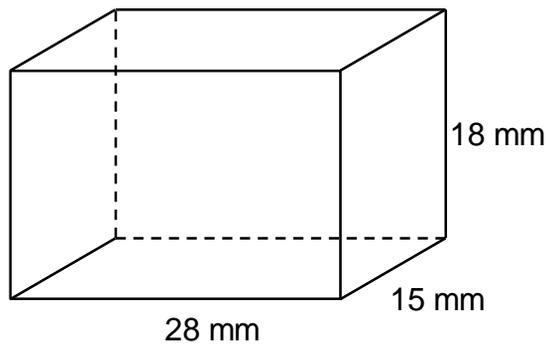


National 4 Unit 1 Part 2 Practice Test (2)

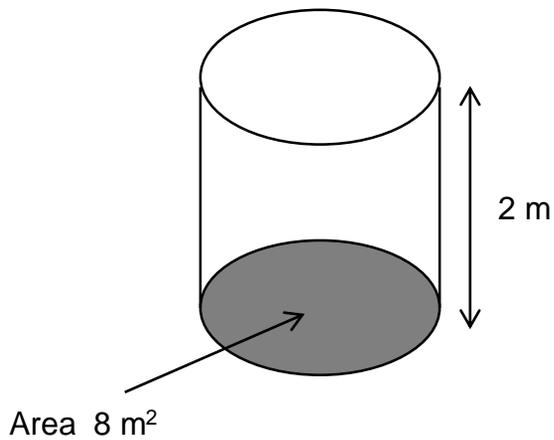
(1) Find the **area** of the following:



(2) Find the **surface area** of the cuboid

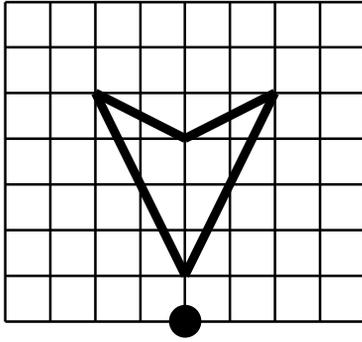


(3) Calculate the volume of the following cylinder



National 4 Unit 1 Part 2 Practice Test (1)

(4) Rotate this shape about the centre of rotation so that it has rotational symmetry of order 4



(5) The number of children attending a breakfast club each day were recorded as follows:

5	6	3	17	2	17	18	16	14	1
8	12	5	7	11	13	14	9	4	15
3	13	16	19	6	17	6	8	5	19

Copy and complete the frequency table for these results

Number of children	Tally	Frequency
0 - 4		
5 -		

(8) A bag contains 10 yellow, 13 blue and 17 red sweets. What is the probability a blue sweet is picked out ?

National 4 Unit 1 Part 2 Revision (1)

(6) Stirling Drama club has eleven members. Their ages were recorded as follows:-

2 4 3 5 5 6 3 7 8 3 6

- (a) Calculate the mean of their ages
- (b) Calculate the range of their ages

Dunblane Drama club has a mean age of 3.2 and a range of 3. Make two statements comparing the data.

(7) To help with sales they research the most popular holiday destination.

The table below shows the results:

Complete the table and draw the pie chart

Colour	Frequency	Angle at Centre
Spain	55	
Italy	13	
France	22	

