

## Level 6 Daily Practice

Try these questions and then self mark them. Ask about those questions that you didn't understand.

Sheet 1

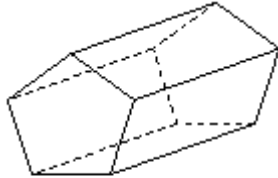
## Level 6 Daily Practice

---

You should be able to answer all the questions in this booklet in 15 minutes.

### Q1. Prisms

The table shows information about a **pentagonal** prism.



Pentagonal prism

	Pentagonal prism
Number of <b>vertices</b>	10
Number of <b>rectangular faces</b>	5
<b>Total</b> number of <b>faces</b>	7

(a) Complete the table to show information about a **triangular** prism.

	Triangular prism
Number of <b>vertices</b>	<i>6</i>
Number of <b>rectangular faces</b>	<i>3</i>
<b>Total</b> number of <b>faces</b>	<i>5</i>

1 mark

## Level 6 Daily Practice

---

(b) Complete the table.

	..... prism	..... prism
<b>Number of vertices</b>	12	
<b>Number of rectangular faces</b>	6	
<b>Total number of faces</b>	8	10

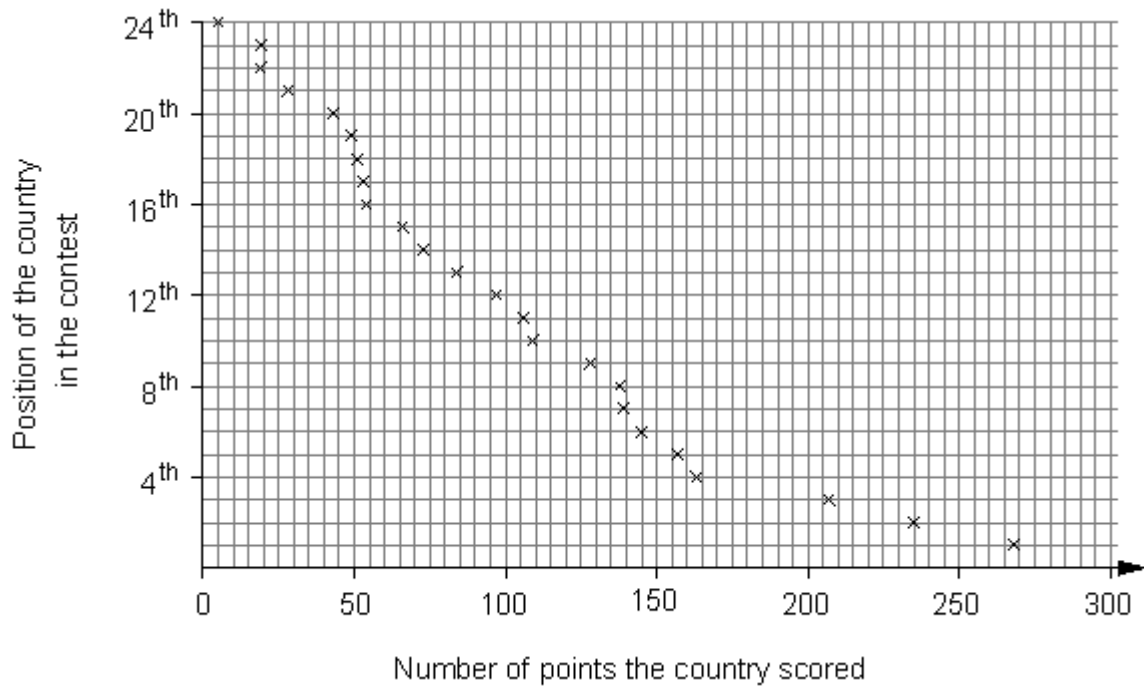
3 marks

### Q2. Eurovision Song Contest

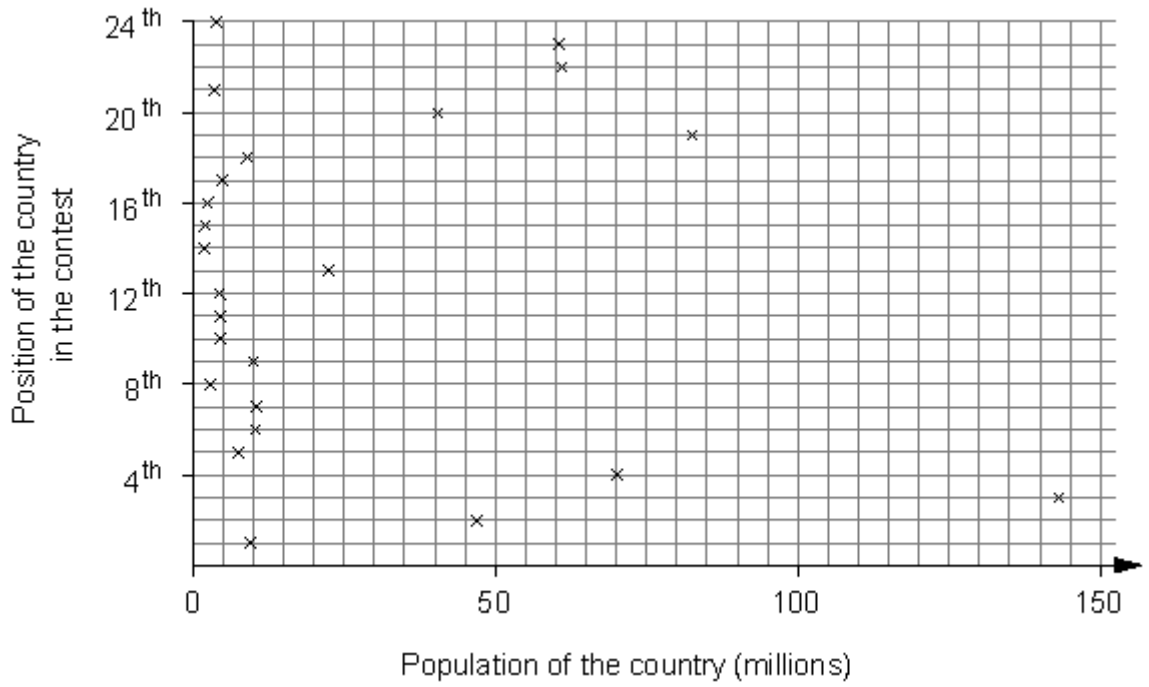
Each year a song contest is held in Europe.

The country with the greatest number of points wins.

The scatter graphs show information about the contest in 2007.



## Level 6 Daily Practice



Use the graphs to answer these questions.

(a) About how many points did the winning country score?

.....

1 mark

(b) How many countries scored **fewer than 60** points?

.....

1 mark

(c) What is the population of the country that scored **84** points?

..... million

1 mark

## Level 6 Daily Practice

---

### Q3. Values

(a) Look at this information.

$$x \leq 0$$

Give an example of what the value of  $x$  could be.

.....

Give a **different** example of what the value of  $x$  could be.

.....

1 mark

(b) Now look at this information.

$$2y + 3 \leq 11$$

What is the **largest** value that  $y$  could be?

.....

1 mark

## Level 6 Daily Practice

---

### Q4. Equation

Look at the equation.

$$14n = 98$$

- (a) Work out the value of  $140n$

.....

1 mark

- (b) Work out the value of  $14(n + 1)$

.....

1 mark

- Q5. The price of a coat is £65

In a sale the price is **reduced** by **15%**

What is the sale price of the coat?

.....

2 marks

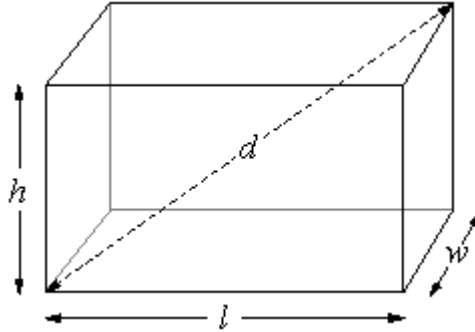
£

## Level 6 Daily Practice

---

**Q6.** A cuboid has length,  $l$ , width,  $w$ , and height,  $h$

The distance between opposite corners is  $d$



Look at the formula.

$$d^2 = l^2 + w^2 + h^2$$

Use the formula to find the value of  $d$  when  $l = 6$ ,  $w = 2$  and  $h = 3$

$d = \dots\dots\dots$

2 marks

## Level 6 Daily Practice

---

**M1.** (a) Completes the three entries of the table correctly, ie

	Triangular prism
vertices	6
rectangular faces	3
total faces	5

1

(b) Completes all four entries of the table correctly, ie

Hexagon(al) prism	Octagon(al) prism
12	16
6	8
8	10

3 (U1)

**or** Completes three entries correctly

2

**or** Completes two entries correctly

1

[4]

**M2.** (a) Gives a value greater than 265 but less than 270

1

(b) 9

1

(c) Gives a value greater than 20 but less than 25

1

[3]

**M3.** (a) Gives two different values of  $x$  that are less than or equal to zero

1

(b) 4

1

[2]

**M4.** (a) 980

1

(b) 112

1

[2]

**M5.** £ 55.25



## Level 6 Daily Practice

---

			2	[2]
M6.	7	<i>Do not accept -7</i>	2	