

Mini Test 1

## Number



Baldivis  
Secondary College

Name: Solutions.

Total Marks: 32 marks

Total Time: 20 minutes

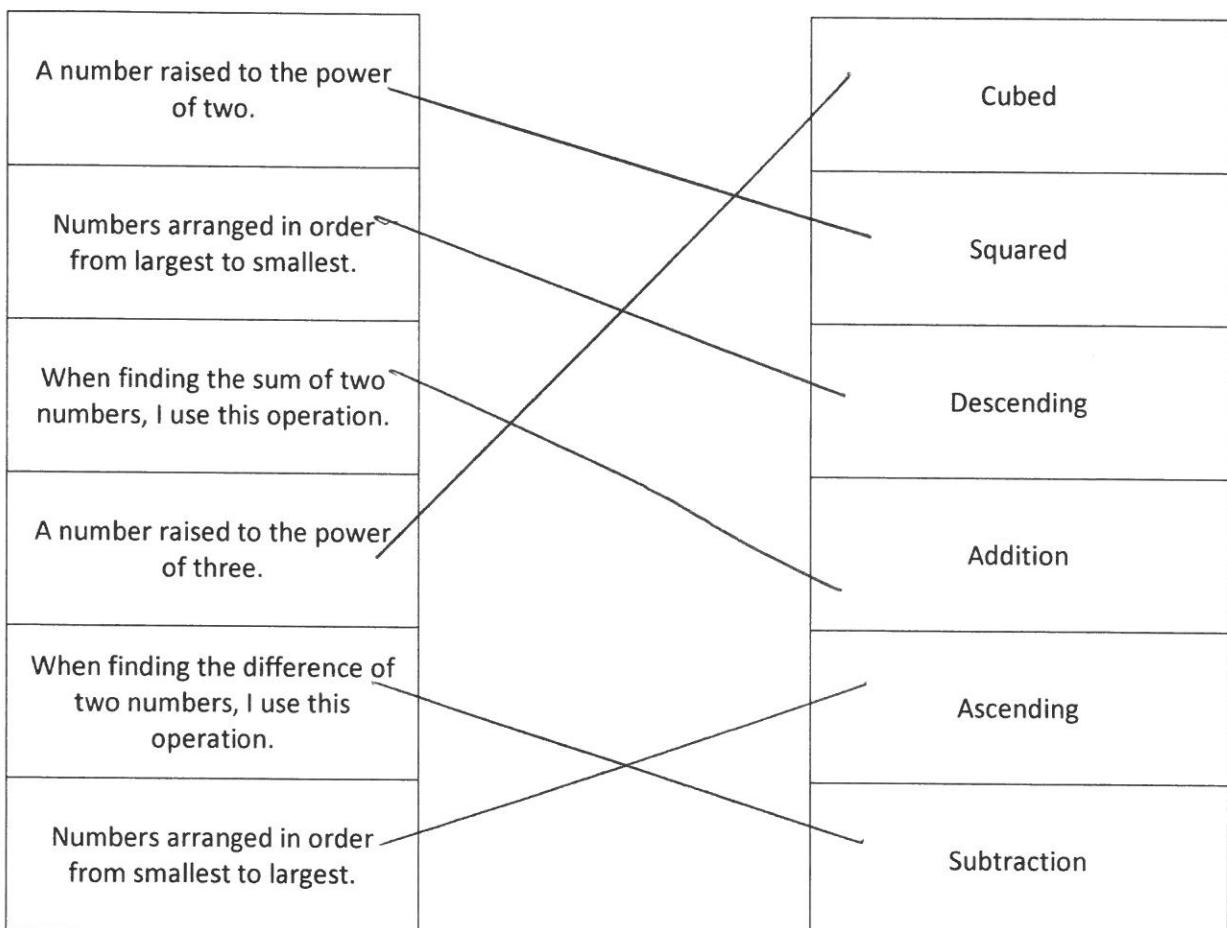
Show working and answers on this sheet. Show working in sufficient detail to support your answers.  
Incorrect answers without supporting reasoning may be allocated zero marks.

**No Resources Allowed**

**Question 1**

**3 marks**

Match the definition on the right-hand side with the correct word on the left-hand side by drawing a line between each one:

**Question 2**

**2 marks**

Write how you would **SAY** each of the following:

- a)  $7^3$  = Seven cubed or seven to the power of three. (1 each)  
 b)  $2^4$  = Two to the power of four.

**Question 3****1 marks**

Write as a single number.

a)  $(5 \times 1000) + (4 \times 100) + (2 \times 10) + (3 \times 1) =$  5423

**Question 4****1 marks**

Find the sum of 132 and 439.

$$\begin{array}{r} 132 \\ 439 \\ \hline 571 \end{array}$$

**Question 5****2 marks**

Write the following in extended (expanded) form:

a)  $2^5 = 2 \times 2 \times 2 \times 2 \times 2$

b)  $3^4 = 3 \times 3 \times 3 \times 3$

**Question 6****3 marks**

Write the following in index form:

a)  $5 \times 5 \times 5 = 5^3$

b)  $2^2 \times 2 \times 2 \times 2 = 2^5$

**Question 7****2 marks**

Find the answer to the following

a)  $\sqrt{25} = 5$

b)  $\sqrt{81} = 9$

**Question 8****6 marks**

Use order of operations to complete

a)  $2 + \overbrace{6 \times 5}^{30} = 32$  (1 mark)

b)  $(\overbrace{15 + 5}^{20}) \div (\overbrace{8 - 4}^4) = 5$  (1 mark)

c)  $(\overbrace{17 - 5 + 8}^{20}) \times 8 = 160$  (2 marks)

*If only have 1 mark*  
d)  $19 - \overbrace{4 \times 4}^{16} - 1 = 2$  (2 marks)

**Question 9****4 marks**

Use the symbol < (less than) or > (greater than) to complete the following:

a)  $5 \underline{>} -1$

b)  $-12 \underline{>} -25$

c)  $2^2 \underline{>} 3$   
4

d)  $(-3)^2 \underline{>} 5$   
 $-3 \times -3 = 9$

**Question 10****6 marks**

Complete the following number sentences.

a)  $(-6) + 2 = \underline{-4}$

b)  $(-2) \times 6 = \underline{-12}$

c)  $8 + \underline{(-4)} = \underline{4}$

d)  $(-2) + 4 + (-7) = \underline{-5}$

e)  $7 - \underline{(-6)} = \underline{13}$

f)  $15 \div (-3) = \underline{-5}$

**Question 11****2 marks**

Rewrite these numbers in ascending order

a)  $5, -5, 10, 25, 0$        $\underline{-5}, \underline{0}, \underline{5}, \underline{10}, \underline{25}$

b)  $6, -3, 4, -2, -5$        $\underline{-5}, \underline{-3}, \underline{-2}, \underline{4}, \underline{6}.$

