

Squares, Cubes, Powers and Roots

1. Write down the values of

(a) 4^2

.....

Answer

(1)

(b) $\sqrt{81}$

.....

Answer

(1)

(Total 2 marks)

2. (a) Write down the square root of 49.

.....

Answer

(1)

(b) Work out the value of 10^4

.....

Answer

(1)

(Total 2 marks)

3. From the list of numbers

- 4 9 20 27 32 51 65 81 125

write down the cube numbers.

.....

.....

Answer

(Total 2 marks)

4. Work out the difference between the two square numbers in this list of numbers.

6 11 15 21 27 36 48 64

.....
.....
.....

Answer

(Total 2 marks)

5. (a) Work out the cube of 4.

.....
.....

Answer

(1)

(b) Work out 2^5

.....
.....

Answer

(1)

(Total 2 marks)

6. Glynn says that $\sqrt{16+9}$ is the same as $\sqrt{16} + \sqrt{9}$

Show that Glynn is wrong.

.....
.....
.....

(Total 2 marks)

7. Work out

(a) 5^3

.....

Answer

(1)

(b) $\frac{8^2}{2^3}$

.....

.....

Answer

(2)

(Total 3 marks)

8.

Tom says

Sam says



64 is a **square** number



64 is a **cube** number

Tom and Sam are both right.
Explain why.

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.....
.....
.....

(Total 2 marks)

9. Work out the value of $5^3 - 4^3$.

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.....
.....

Answer

(Total 2 marks)

10. Ed thinks that when you square a number you always get an even number.

Give an example to show that Ed is wrong.

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.....
.....

(Total 2 marks)