Name:

Exam Style Questions

Cube Numbers
Cube Roots

Corbettmaths

Equipment needed: Calculator and Pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Videos 212, 213, 214

Answers and Video Solutions

1. Here is a list of numbers

1 4 7 12 20 81 100

From the list, write down the cube number.

.....

(1)

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2. Circle the cube number

100 125 133 180

(1)

---

3. From the list of numbers

3 6 8 14 16 28 41 64

(a) write down the cube numbers

..... and .....

(2)

(b) write down the cube root of 27.

.....

(1)

4. Write down the value of

(a) 1^3

.....

(1)

(b) ten cubed

.....

(1)

(c) 5^3

.....

(1)

(d) 6 cubed

.....

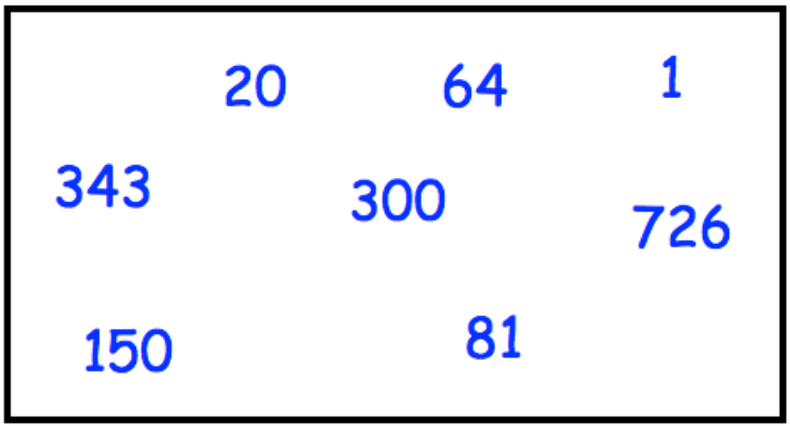
(1)

(e) 8^3

.....

(2)

5.



Circle all the cube numbers.

(2)

6. Write down the value of

(a) $\sqrt[3]{64}$

.....

(1)

(b) $\sqrt[3]{8}$

.....

(1)

(c) $\sqrt[3]{0}$

.....

(1)

(d) $\sqrt[3]{1000}$

.....

(1)

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7. Calculate 7.1^3

.....

(1)

---

8. Calculate $\sqrt[3]{614.125}$

.....

(1)

9. Write down all the cube numbers between 100 and 999

.....

(3)

---

10. Circle the number that is **double** a cube number.

4 8 50 54 64

(1)

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11. Hollie says “when you cube root a number, the answer is always smaller.”

Show she is wrong.

(2)

12. Write down a cube number that is greater than 100 and less than 200.

.....

(1)

---

13. Arrange these in order, starting with the smallest.

2^2 $\sqrt[3]{27}$ 1^3 $\sqrt{25}$

.....

(2)

---

14. 729 is both a square number and a cube number.

Find two other numbers that are both square numbers and cube numbers.

..... and .....

(2)

15. Isla thinks of a number

She subtracts 10 and then finds the cube root of the answer.
The answer is 8

What number did Isla think of?

.....

(2)

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16. Don says

“the difference between two consecutive cube numbers is always odd.”

Is Don correct?
You must show your workings.

(2)