



THIRD SPACE
LEARNING

GCSE Exam Questions

Square Numbers | Number

GCSE Exam Questions: Square Numbers

1) Work out the value of:

(a) 3^2

(1)

(b) 4×7^2

(1)

(c) $6^2 \times 7^2$

(1)
(3 marks)

2) Work out the value of:

(a) $\sqrt{144}$

(1)

(b) $\sqrt{36} \times \sqrt{4}$

(1)

(c) $\sqrt{81} \div \sqrt{9} \times \sqrt{4}$

(1)
(3 marks)

GCSE Exam Questions: Square Numbers

- 3) Arrange these values in order starting with the smallest:

$$2^2 + 3^2, \sqrt{144}, \sqrt{100}, 3^2, \sqrt{16} \times \sqrt{4}, 2.5^2$$

(2 marks)

- 4) Lily says the difference between 2 consecutive square numbers is always odd. Is she correct? Explain your answer.

(2 marks)

GCSE Exam Questions: Square Numbers Answers

	Question	Answer	Marks
1) (a)	Work out the value of: 3^2	(a) 9	(1)
(b)	4×7^2	(b) 196	(1)
(c)	$6^2 \times 7^2$	(c) 1764	(1)
2) (a)	Work out the value of: $\sqrt{144}$	(a) 12	(1)
(b)	$\sqrt{36} \times \sqrt{4}$	(b) 12	(1)
(c)	$\sqrt{81} \div \sqrt{9} \times \sqrt{4}$	(c) 6	(1)
3)	Arrange these values in order starting with the smallest: $(2^2 + 3^2)$, $\sqrt{144}$, $\sqrt{100}$, 3^2, $(\sqrt{16} \times \sqrt{4})$, 2.5^2	$2.5^2, \sqrt{16} \times \sqrt{4}, 3^2, \sqrt{100}, \sqrt{144}, 2^2 + 3^2$ 1 mark for 3 values in correct position 1 mark all numbers in correct position	(1) (1)
4)	Lily says the difference between 2 consecutive square numbers is always odd. Is she correct? Explain your answer.	Yes This is correct because if two square numbers are consecutive, then one is odd and one is even, and the difference between an odd and even number is always odd. E.g. $16 - 9 = 7$	(1) (1)

Where to go next?

For more diagnostic questions, and GCSE maths revision resources and worksheets to support students in fixing any misconceptions take a look at the free Third Space Learning [GCSE maths revision](#) pages.

Scan the QR code to discover our library of FREE GCSE maths revision resources

Do you have KS4 students who need additional support in maths?



Our specialist tutors will help students to develop the skills they need to succeed at GCSE in weekly one to one online revision lessons. Trusted by secondary schools across the UK.

Visit thirdspacelearning.com to find out more.