

Surname	
Other Names	
Candidate's Signature	

GCSE 9 - 1 Questions

Indices

INSTRUCTIONS TO CANDIDATES

Write your name in the space provided.

Write your answers in the spaces provided in this question paper.

Answer ALL questions.

Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.

You should have a ruler, compass and protractor where required.

Total Marks :

1) Simplify

(a) $c^6 \times c^4$

Answer _____ [1]

(b) $m^8 \div m^2$

Answer _____ [1]

2) Simplify $\frac{m^7}{m \times m^2}$

Answer _____ [2]

3) Simplify

(i) $m^7 \div m^3$

Answer _____ [1]

(ii) $a^5 \times a^4$

Answer _____ [1]

(iii) $(p^6)^2$

Answer _____ [1]

4) Simplify

(a) $t^3 \times t^3$

Answer _____ [1]

(b) $r^6 \div r^2$

Answer _____ [1]

5) Simplify

(a) $y^3 \times y^6$

Answer _____ [1]

(b) $\frac{n^2 \times n^3}{n^4}$

Answer _____ [1]

6) Simplify

(a) $g^7 \times g^3$

Answer _____ [1]

(b) $\frac{a^4 \times a^3}{a}$

Answer _____ [1]

7) Simplify $\frac{y^{16} \times y^2}{y^4}$.

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[1]

8) Work out the value of $7^2 - 2^3$.

[2]

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9) Find the value of $2^3 \times 5^2$.

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[2]

10) Calculate the value of $2^3 + 5^2$.

[2]

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11) Aron claims that, when a number is squared, the answer cannot be smaller than the number that was squared.
Explain, by using an example, that Aron's claim is false. [1]

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