

#1

Simplify. Express your answer as a single term.

$$(10t^4)^2$$

- $100t^6$                         $100t^8$   
  $10t^6$                           $10t^8$

Show your work

#2

Simplify. Express your answer as a single term.

$$(10u^8)^2$$

- $100u^{10}$                         $10u^{10}$   
  $10u^{16}$                           $100u^{16}$

Show your work

#3

Simplify. Express your answer as a single term.

$$(6d^2)^3$$

- $216d^6$                           $6d^6$   
  $216d^5$                           $6d^5$

Show your work

#4

Simplify. Express your answer as a single term.

$$(4t^{10})^3$$

$4t^{30}$

$64t^{30}$

$64t^{13}$

$4t^{13}$

Show your work

#5

Simplify. Express your answer as a single term.

$$(5a^7)^9$$

$1953125a^{63}$

$5a^{16}$

$1953125a^{16}$

$5a^{63}$

Show your work

#6

Simplify. Express your answer as a single term.

$$(8m^3)^7 = \boxed{\phantom{000000}} \boxed{\phantom{000000}}$$

Show your work

#7

Simplify. Express your answer as a single term.

$$(10x^8)^3$$

$1000x^{11}$

$1000x^{24}$

$10x^{11}$

$10x^{24}$

Show your work

#8

Simplify. Express your answer as a single term.

$$(9f^6)^5$$

$9f^{30}$

$9f^{11}$

$59049f^{11}$

$59049f^{30}$

Show your work

#9

Simplify. Express your answer as a single term.

$$(10o^3)^4 = \boxed{\phantom{000000}} \boxed{\phantom{000000}}$$

Show your work

#10

Simplify. Express your answer as a single term.

$$(2i^9)^8$$

- $2i^{72}$                         $256i^{17}$   
  $256i^{72}$                         $2i^{17}$

Show your work

#11

Simplify. Express your answer as a single term.

$$(2m^3)^7$$

- $128m^{21}$                         $2m^{21}$   
  $128m^{10}$                         $2m^{10}$

Show your work

#12

Simplify. Express your answer as a single term.

$$(8d^7)^3 = \boxed{\phantom{000}} \boxed{\phantom{000}}$$

Show your work

Question	Answer
#1	choice 2
#2	choice 4
#3	choice 1
#4	choice 2
#5	choice 1
#6	21, 2097152m
#7	choice 2
#8	choice 4
#9	12, 10000o
#10	choice 3
#11	choice 1
#12	21, 512d