

1. Simplify.
Permudahkan.

$$(4.3^7)^5$$

- ☐ A 4.3^{35}
- ☐ B 4.3^{24}
- ☐ C 4.3^{12}
- ☐ D 4.3^2

2. Simplify:
Permudahkan:

$$(6a^{-2})^4 \div (-3a^3)^3$$

- ☐ A $16a$
- ☐ B $-16a^{-1}$
- ☐ C $36a^{-12}$
- ☐ D $-48a^{-17}$

3. The following gives the value of 64 **except**
Berikut memberi nilai 64 **kecuali**

- ☐ A 2^6
- ☐ B 8^2
- ☐ C 2^4
- ☐ D 4^3

4. $\left(\frac{1}{4}e^0f^5g^2\right)^3 =$

- ☐ A $\frac{1}{64}f^{15}g^6$
- ☐ B $\frac{1}{64}e^3f^8g^5$
- ☐ C $\frac{1}{12}f^{15}g^6$
- ☐ D $\frac{1}{12}e^3f^8g^5$

5. $10^3 \times 10^3 =$

- ☐ A 10^9
- ☐ B 10^6
- ☐ C 9^{10}
- ☐ D 9^6

6. Find the value of x .
Cari nilai x .

$$3^5 \times 9^x = 81$$

- ☐ A -1
- ☐ B 1
- ☐ C $\frac{1}{2}$
- ☐ D $-\frac{1}{2}$

7. Simplify.
Permudahkan.

$$(m^2 \times \sqrt[3]{n})^4 \times \left(\frac{m^6}{n^2}\right)^{\frac{5}{3}}$$

- ☐ A $\frac{m^{20}}{n^2}$
- ☐ B $\frac{m^{18}}{n^4}$
- ☐ C $\frac{m^{18}}{n^2}$
- ☐ D $\frac{m^{21}}{n^2}$

8. Simplify.
Permudahkan.

$$\frac{35p^{20}}{7p^{14}}$$

- ☐ A $15p^6$
- ☐ B $15p^7$
- ☐ C $5p^6$
- ☐ D $5p^7$

9. $((-3)^5)^2 =$

- ☐ A 3^7
- ☐ B 3^{11}
- ☐ C $(-3)^7$
- ☐ D $(-3)^{10}$

10. Given $3^x = 27^{-\frac{4}{3}} \times 9^{\frac{1}{2}}$, find the value of x.

Diberi $3^x = 27^{-\frac{4}{3}} \times 9^{\frac{1}{2}}$, cari nilai x.

- ☐ A 5
- ☐ B 3
- ☐ C -2
- ☐ D -3

11. Simplify.
Permudahkan.

$$(6^4)^3$$

- ☐ A 6^{12}
- ☐ B 6^{11}
- ☐ C 6^7
- ☐ D 6^6

12. Simplify.
Permudahkan.

$$\frac{4}{9}m^7 \times 18m^5$$

- ☐ A $6m^{35}$
☐ B $8m^{35}$
☐ C $6m^{12}$
☐ D $8m^{12}$

13. $(-4) \times (-4) \times (-4) =$

- ☐ A -4^2
☐ B -4^3
☐ C 3×-4
☐ D 2×-4

14. Simplify.
Permudahkan.

$$(k^3)^8$$

- ☐ A k^{26}
☐ B k^{24}
☐ C k^{12}
☐ D k^2

15. $2w^2 \times \frac{1}{5}w^3 \times 15w^8 =$

- ☐ A $14w^{13}$
☐ B $14w^{48}$
☐ C $6w^{13}$
☐ D $6w^{48}$

16. $\left(\frac{3}{8}\right)^3 =$

- ☐ A $\frac{27}{512}$
- ☐ B $\frac{9}{24}$
- ☐ C $\frac{27}{287}$
- ☐ D $\frac{9}{512}$

17. Simplify:
Permudahkan:

$$\frac{8h^5k^2 \times 6k^3}{3h^2}$$

- ☐ A $\frac{16k^5}{h^3}$
- ☐ B $\frac{24k^5}{h^3}$
- ☐ C $16h^3k^5$
- ☐ D $24h^3k^5$

18. Simplify.
Permudahkan.

$$\left(\frac{3a^2}{4b^9}\right)^4$$

- ☐ A $\frac{81a^6}{216b^{36}}$
- ☐ B $\frac{27a^8}{256b^{36}}$
- ☐ C $\frac{81a^8}{216b^{36}}$
- ☐ D $\frac{81a^8}{256b^{36}}$

- ☐ A $\frac{81a^6}{216b^{36}}$
- ☐ B $\frac{27a^8}{256b^{36}}$
- ☐ C $\frac{81a^8}{216b^{36}}$
- ☐ D $\frac{81a^8}{256b^{36}}$

19. $(-0.3)^5 \times (-0.3)^6 =$

- ☐ A 0.3^{11}
- ☐ B 0.9^{11}
- ☐ C $(-0.3)^{11}$
- ☐ D $(-0.9)^{11}$

20. If $81 = 3^n$, then the value of n is
Jika $81 = 3^n$, maka nilai n ialah

- ☐ A $\frac{1}{27}$
- ☐ B 4
- ☐ C 5
- ☐ D 27