

1. $2^3 \times 3^4 \times 2^2 \times 3^5 =$

- ☐ A 6^{14}
☐ B 6^{20}
☐ C $2^5 \times 3^9$
☐ D $2^4 \times 3^{10}$

2. $\left(-\frac{2}{3}\right)^3 =$

- ☐ A $-\frac{4}{9}$
☐ B $-\frac{8}{27}$
☐ C $\frac{4}{9}$
☐ D $\frac{8}{27}$

3. Given that $5^n \times 5^6 = 5^{18}$, find the value of n .
 Diberi bahawa $5^n \times 5^6 = 5^{18}$, cari nilai n .

- ☐ A 3
☐ B 6
☐ C 9
☐ D 12

4. $(0.7)^3 =$

- ☐ A 0.343
☐ B 0.49
☐ C 1.7
☐ D 2.1

5. $32^{-\frac{2}{5}} \div (2^{\frac{3}{2}})^4 =$

- ☐ A 2^{-8}
☐ B 2^{-4}
☐ C 2^4
☐ D 2^8

6. Simplify.
 Permudahkan.

$$(h^5 \times k^2 \times m^8)^4$$

- ☐ A $h^9 k^6 m^{12}$
☐ B $h^2 k^4 m^{30}$
☐ C $h^{20} k^8 m^{32}$
☐ D $h^{20} k^{16} m^{32}$

7.

$$\frac{\sqrt{36m^4n^2} \times m\sqrt{n}}{\sqrt{2} \times \sqrt{2m^2n}} =$$



- ☐ A $3n^2m$
☐ B $6mn$
☐ C $6m^3n^2$
☐ D $3m^2n$

8.

Given $k^{-4} \times k^n = \frac{1}{k}$, find the value of n .

Diberi $k^{-4} \times k^n = \frac{1}{k}$, cari nilai n .

- ☐ A 3
☐ B 2
☐ C 1
☐ D -1

9.

Simplify:
Permudahkan:

$$\frac{h^{\frac{7}{3}} \times h^{\frac{5}{3}}}{h^2}$$

- ☐ A h
☐ B h^2
☐ C $\sqrt{h}$
☐ D $\sqrt[3]{h}$

10.

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 $\frac{m^{21}}{n^2}$

11. $\frac{(m^2n)^3 \times 25m^6n^3}{(5m^5n^2)^3} =$



- ☐ A $\frac{n}{5m^2}$
- ☐ B $\frac{m^3}{5}$
- ☐ C $\frac{1}{5m^3}$
- ☐ D $\frac{5}{m^3}$

12. Simplify.
Permudahkan.

$$(k^3)^8$$

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

13. $\left(\frac{2}{5}\right)^4 =$

- ☐ A $\frac{4}{25}$
- ☐ B $\frac{64}{125}$
- ☐ C $\frac{16}{625}$
- ☐ D $\frac{32}{125}$

14. 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

15. $8^3 =$

- ☐ A 24
- ☐ B 52
- ☐ C 240
- ☐ D 512

16. Calculate the value of the following.
Hitung nilai bagi yang berikut.



$$\left(-\frac{3}{4}\right)^4$$

- ☐ A $\frac{81}{256}$
- ☐ B $\frac{27}{256}$
- ☐ C $\frac{81}{256}$
- ☐ D $\frac{27}{256}$

17. $5^{12} \div 5^9 \div 5^3 =$

- ☐ A 5
- ☐ B 3
- ☐ C 1
- ☐ D 0

18. Write the following number in index form using the base given.
Tulis nombor yang berikut dalam bentuk indeks dengan menggunakan asas yang diberikan.

10 000 000 [Base/Asas 10]

- ☐ A 10^4
- ☐ B 10^7
- ☐ C 10^{-4}
- ☐ D 10^{-7}

19. Simplify:
Pemudahkan:

$$a^2 \times a^3 \div a$$

- ☐ A a^3
- ☐ B a^4
- ☐ C a^5
- ☐ D a^6

20. Find the value.
Cari nilai.

$$6^8 \div 6^{10} \times 3^5$$

- ☐ A $5\frac{3}{4}$
- ☐ B $5\frac{1}{2}$
- ☐ C $6\frac{3}{4}$
- ☐ D $6\frac{1}{2}$