1. $32^{\frac{1}{5}}$

- A 4
- B 3
- C 2
- D 1

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

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

3. Simplify:
Permudahkan:

$$\frac{6x^5y^4z^7}{2x^6y^{-1}}$$

- A $6x^5y^4z^7$
- B $\frac{2x^5y^7}{x}$
- C $\frac{3y^5z^7}{x}$
- D $\frac{4y^4z^7}{x}$

4. Simplify:
Permudahkan:

$$(m^3)^4$$

- A m
- B m^3
- C m^7
- D m^{12}

5. Simplify.
Permudahkan.

$$30x^8y^4 \div 5y^2 \div 3x^5y$$

- A $2x^3y$
- B $15x^3y$
- C $2x^2y^2$
- D $15x^2y^2$

6. Simplify:
Permudahkan:

$$(mn^3)^2 \times n^{-3}$$

- A mn
- B mn^3
- C m^2n^3
- D m^4n

7. Which of the following is **not** true?
Antara berikut, yang manakah **tidak** *benar?*

- A $k^6 \times k^4 \times k^0 = k^{10}$
- B $5^{\frac{2}{3}} = \sqrt[3]{25}$
- C $2^{15} \div 2^3 = 2^5$
- D $(x^8)^{-\frac{1}{4}} = x^{-2}$

8. $(2^{\frac{1}{4}})^{-2} \times (2^2)^{\frac{3}{4}} =$

- A -1
- B 0
- C 2
- D 4

9. Simplify.
Permudahkan.

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

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

10. Given $\left(\frac{2}{3}\right)^n = \frac{81}{16}$, find the value of n.

Diberi $\left(\frac{2}{3}\right)^n = \frac{81}{16}$, *cari nilai* n.

- A −4
- B −2
- C 3
- D 4

11. $5^{12} \div 5^9 \div 5^3 =$

- A 5
- B 3
- C 1
- D 0

12. Calculate the value of the following by using a calculator.
Hitung nilai yang berikut dengan menggunakan kalkulator.

$(1.2)^3 =$

- A −0.678
- B −1.728
- C 0.678
- D 1.728

13. 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 $24h^3k^5$

14. Which of the following gives k^6?
Antara berikut, yang manakah memberi k^6?

- A $k^2 \times k^3$
- B $k^{2(3)}$
- C $k^{11} \times k^{-4}$
- D $\frac{k^2}{k^4}$

15. $7^2 \times 7^4 =$

- A 6^8
- B 6^7
- C 7^8
- D 7^6

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

8^3

- A 24
- B 64
- C 185
- D 512

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

243 [Base/*Asas* 3]

- A 5^3
- B 7^3
- C 3^5
- D 3^6

18. $16^{\frac{3}{4}} \times 3^{-1} =$

- A -2
- B $\frac{8}{3}$
- C $\frac{16}{3}$
- D 48

19. Simplify.
Permudahkan.

$$\frac{(6xy^3)^3 \times (4x^5y^7)^2}{36x^8y^{15}}$$

- A $96x^5y^8$
- B $48x^5y^8$
- C $96x^9y^{12}$
- D $48x^9y^{12}$

20. Simplify:
Permudahkan:

$$\frac{-18m^3n^6}{6(m^2n)^2}$$

- A $-3mn^2$
- B $-3mn^4$
- C $\frac{-3n^4}{m}$
- D $\frac{-3m}{n^4}$