## Soalan Objektif

1. $4^3 \times 9^9 \times 4^2 \times 9^5 =$
   A $13^{19}$
   B $4^5 \times 9^{14}$
   C $4^5 + 9^{14}$
   D $36^{19}$

2. Permudahkan/*Simplify*
   $\dfrac{(2 \times 5^3)^{\frac{1}{3}}}{(2^{\frac{2}{3}} \times 5^{-4})^2}$
   A $2^3 \times 5^{-7}$
   B $2^{-1} \times 5^{-1}$
   C $2^2 \times 5^9$
   D $2^{-1} \times 5^9$

3. Permudahkan/*Simplify*
   $(3m^{-3}n^2)^3 \times \frac{1}{3}m^2n^{-5}$.
   A $3m^{-7}$
   B $3m^2n^{-1}$
   C $9m^{-7}$
   D $9m^{-7}n$

4. Diberi $2^{-3} \times 64 = 2^n$. Cari nilai bagi $n$.
   *Given* $2^{-3} \times 64 = 2^n$. *Find the value of* $n$.
   A $-9$
   B $3$
   C $4$
   D $6$

5. Antara berikut, yang manakah tidak betul?
   *Which of the following is not correct?*
   A $3 \times 3 \times 3 \times 3 \times 3 = 3^5$
   B $8 = 2^3$
   C $4^2 = 4 + 4$
   D $4^0 + 4^4 = 1 + 256$

6. Diberi $\left(\frac{3}{4}\right)^{2x-1} = 4^{3x-5} \times 3^{2x-1}$. Cari nilai bagi $x$.
   *Given* $\left(\frac{3}{4}\right)^{2x-1} = 4^{3x-5} \times 3^{2x-1}$. *Find the value of* $x$.
   A $-4$
   B $\frac{6}{5}$
   C $\frac{4}{5}$
   D $45$

7. Permudahkan/*Simplify*
   $\dfrac{21m^3n^5}{3mn^2}$.
   A $7m^2n^3$
   B $7m^3n^2$
   C $7m^{-3}n^2$
   D $7m^3n^{-2}$

8. $\sqrt{mn} \times \sqrt[4]{mn^2} \times \sqrt[4]{mn^4} =$
   A $n\sqrt{m}$
   B $mn^2$
   C $m\sqrt{n}$
   D $n^2\sqrt{nm}$

9. Permudahkan/*Simplify*
   $-4m^5 \times n^6 \times \frac{1}{8}n^5 \times 2m$
   A $m^6n^{11}$
   B $n^6m^{11}$
   C $-n^6m^{11}$
   D $-m^6n^{11}$

10. Permudahkan/*Simplify*
    $(2m^2n^3)^4$.
    A $8m^4n^7$
    B $16m^8n^{12}$
    C $16m^{12}n^7$
    D $16m^6n^7$

LIVEWORKSHEETS