

Penyelesaian Lengkap

PRAKTIS 2

Bahagian A

- $0.0654 = 0.065$ (2 a.b./2 s.f.)
Jawapan/Answer: C
- $0.006018 = 0.00602$ (3 a.b./3 s.f.)
Jawapan/Answer: D
- $90647 = 90600$ (3 a.b./3 s.f.)
Jawapan/Answer: A
- 6.80 (3 a.b./3 s.f.)
Jawapan/Answer: B
- $1.74 = 1.70$ (3 a.b./3 s.f.)
Jawapan/Answer: C
- $(3 - 0.415) \div 50$
 $= 2.585 \div 50$
 $= 0.0517$
 $= 0.052$ (2 a.b./2 s.f.)
Jawapan/Answer: D
- A $\underline{53\ 149} = 53\ 100$ (3 a.b./3 s.f.)
B $\underline{53\ 162.3} = 53\ 200$ (3 s.f.) ✓ (3 a.b./3 s.f.)
C $\underline{53\ 289} = 53\ 300$ (3 a.b./3 s.f.)
D $\underline{53\ 129.9} = 53\ 100$ (3 a.b./3 s.f.)
Jawapan/Answer: B
- A $\underline{7950} = 8000$
B $\underline{7982} = 8000$
C $\underline{8034} = 8000$
D $\underline{8051} = 8100$ ✓
Jawapan/Answer: D
- $6.753 \times 10^{-5} = 0.00006453$
Jawapan/Answer: C
- $\frac{0.006}{1\ 200\ 000} = \frac{6 \times 10^{-3}}{1.2 \times 10^6}$
 $= \frac{6}{1.2} \times \frac{10^{-3}}{10^6}$
 $= 5 \times 10^{-9}$
Jawapan/Answer: D
- $129000 = 1.29 \times 10^5$
Jawapan/Answer: B
- $3.5 \times 10^{-5} - 0.0000021 = 3.5 \times 10^{-5} - 2.1 \times 10^{-6}$
 $= 3.5 \times 10^{-5} - 0.21 \times 10^{-5}$
 $= 3.29 \times 10^{-5}$
Jawapan/Answer: C
- $\sqrt{2.5 \times 10^{-9}} = \sqrt{25 \times 10^{-10}}$
 $= 5 \times 10^{-5}$
Jawapan/Answer: B
- Katakan panjang setiap sisi tanah
Let the length of each side of the land = x cm
Maka/Hence $x^2 = 6.4 \times 10^5$

$$x = \sqrt{6.4 \times 10^5}$$

$$= \sqrt{64 \times 10^4}$$

$$= 8 \times 10^2 \text{ m}$$

Perimeter tanah/Perimeter of the land = $4x$

$$= 4 \times 8 \times 10^2$$

$$= 32 \times 10^2$$

$$= 3.2 \times 10^1 \times 10^2$$

$$= 3.2 \times 10^3 \text{ m}$$

Jawapan/Answer: C

15 Bilangan jubin/Number of tiles = $\frac{30 \text{ cm} \times 40 \text{ cm}}{25 \text{ cm} \times 25 \text{ cm}}$

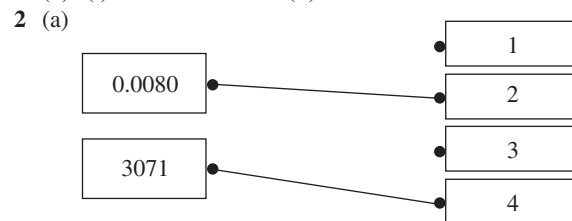
$$= \frac{3\ 000 \text{ cm} \times 4\ 000 \text{ cm}}{25 \text{ cm} \times 25 \text{ cm}}$$

$$= 1.92 \times 10^4$$

Jawapan/Answer: B

Bahagian B

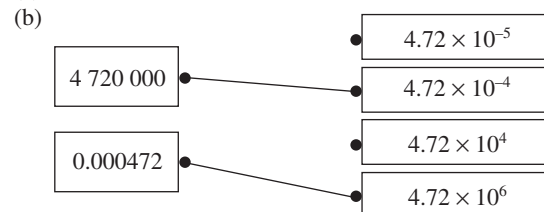
- 1 (a) (i) 4 (ii) 3
(b) (i) Benar/True (ii) Palsu/False



(b)

| Nombor / Number | 1 a.b. / 1 s.f. | 2 a.b. / 2 s.f. |
|-----------------|-----------------|-----------------|
| 7995 | 8000 | 8000 |

- 3 (a) 9.11×10^7 8.3×10^{-3}



4 (a) $59730 = \boxed{5.973} \times 10^4$

- (b) (i) Palsu/False
(ii) Benar/True

5 (a) $3.51 \times 10^{-8} - 9.61 \times 10^{-9}$

$$= 3.51 \times 10^{-8} - \boxed{0.961} \times 10^{-8}$$

$$= \boxed{2.549} \times 10^{-8}$$

- (b) (i) Palsu/*False*
(ii) Benar/*True*

Bahagian C

- 1 (a) $0.0006905 = 0.000069$
 $= 6.9 \times 10^{-4}$
- (b) Jarak = laju \times masa
Distance = speed \times time
 $= 3 \times 10^8 \times 30 \times 60$
Masa/*Time* = 30 minit
 $= 30 \times 60$ s
 $= 5.4 \times 10^{11}$ m
 $= 5.4 \times 10^8$ km
- (c) $F = \frac{5.8 \times 10^{24} \times (2.98 \times 10^4)^2}{1.496 \times 10^{11}}$
 $= 3.4429 \times 10^{22}$
 $= 3.44 \times 10^{22}$
- 2 (a) $4.5 \times 10^{-6} - 0.00000065 = 4.5 \times 10^{-6} - 6.5 \times 10^{-7}$
 $= 4.5 \times 10^{-6} - 0.65 \times 10^{-6}$
 $= (4.5 - 0.65) \times 10^{-6}$
 $= 3.85 \times 10^{-6}$

$$(b) \text{ Isi padu/Volume} = \frac{2}{3}\pi r^3 = \frac{2}{3} \times \frac{22}{7} \times 12.5^3$$

$$= 4\,092.26$$

$$= 4\,090 \text{ cm}^3$$

$$(c) \text{ Isi padu/Volume} = 4 \text{ m} \times 6.5 \text{ m} \times 5 \text{ m}$$

$$= 400 \text{ cm} \times 650 \text{ cm} \times 500 \text{ cm}$$

$$= 130\,000\,000$$

$$= 1.3 \times 10^8 \text{ cm}^3$$

- 3 (a) (i) 7
(ii) 4

$$(b) \frac{4.8 \text{ cm}}{450} = 0.0107 \text{ cm}$$

$$= 0.000107 \text{ m}$$

$$= 1.07 \times 10^{-4} \text{ m}$$

$$(c) 1.5 \text{ milicoulomb} = \frac{1.5}{1\,000} \text{ coulomb}$$

$$= 0.0015 \text{ coulomb}$$

Bilangan elektron /*Number of electrons*

$$= \frac{0.0015}{1.602 \times 10^{-19}}$$

$$= 9.3633 \times 10^{15}$$

$$= 9.36 \times 10^{15}$$