

Penyelesaian Lengkap

PRAKTIK 3

Bahagian A

1 $\frac{32}{4} = 8 \text{ cm}$

$$A = 8^2 \\ = 64 \text{ cm}^2$$

Jawapan/Answer: C

2 Jawapan/Answer: C

3 $\left(3\frac{2}{5}\right)^2 = \left(\frac{17}{5}\right)^2 \\ = \frac{289}{25} \\ = 11.56$

Jawapan/Answer: D

4 $52\,900 = 5.29 \times 10\,000 \\ = (2.3)^2 \times 100^2 \\ = (2.3 \times 100)^2 \\ = 230$

Jawapan/Answer: C

5 25, 36, 49, 64, 81, 100
Jawapan/Answer: B

6 $\sqrt{36} = 6 \text{ cm}$
Perimeter = $4 \times 6 \\ = 24 \text{ cm}$

Jawapan/Answer: D

7 $\left(\frac{\sqrt{2} \times \sqrt{18}}{3}\right)^2 = \left(\frac{\sqrt{2 \times 18}}{3}\right)^3 \\ = \left(\frac{\sqrt{36}}{3}\right)^2 \\ = \left(\frac{6}{3}\right)^2 \\ = 2^2 \\ = 4$

Jawapan/Answer: B

8 Jawapan/Answer: B

9 $8 - \left(1\frac{2}{3}\right)^3 = 8 - \left(\frac{5}{3}\right)^3 \\ = 8 - \frac{125}{27} \\ = \frac{91}{27} \\ = 3\frac{10}{27}$

Jawapan/Answer: B

10 $\sqrt[3]{216} = 6 \\ 12 \times 6 = 72 \text{ cm}$
Jawapan/Answer: D

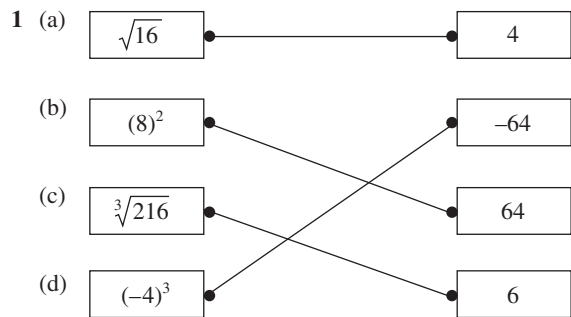
11 $\sqrt[3]{-\frac{27}{512}} = \sqrt[3]{\left(-\frac{3}{8}\right) \times \left(-\frac{3}{8}\right) \times \left(-\frac{3}{8}\right)}$
 $x = -\frac{3}{8}$

Jawapan/Answer: B

12 27, 64, 125, 216, 343, 512, 729, 1 000

Jawapan/Answer: A

Bahagian B



- 2 (a) PALSU/FALSE
(b) BENAR/TRUE
(c) BENAR/TRUE
(d) PALSU/FALSE

3

| | | | | | |
|----|----|-----|----|----|----|
| 16 | 8 | 9 | 56 | 72 | 27 |
| 64 | 36 | 125 | 4 | 10 | 90 |

4 (a) $\sqrt{\frac{4}{25}} = \frac{2}{5}$ (b) $\boxed{-3}^2 = 9$
(c) $\boxed{8}^3 = 512$ (d) $\sqrt[3]{-729} = -9$

5 (a) $(-7)^2 = -49$ 49 -343
(b) $\left(-\frac{3}{4}\right)^3 = -\frac{9}{64}$ $-\frac{27}{64}$ $\frac{27}{64}$
(c) $\sqrt[3]{125} = 5$ 25 -5
(d) $\sqrt{121} = -11$ 11 121

Bahagian C

- 1 (a) (i) 10.563
(ii) 3.606
(iii) 2.759
(b) (i) $\sqrt[3]{729} = 9 \text{ cm}$
 $\frac{9}{3} = 3 \text{ cm}$

$$(ii) A_A = 9 \times 9 = 81 \text{ cm}^2$$

$$A_B = 3 \times 3 = 9 \text{ cm}^2$$

$$\text{Beza/Difference} = 81 - 9$$

$$= 72 \text{ cm}^2$$

$$(c) 64 = 2 \times 2 \times 2 \times 2 \times 2 \times 2$$

$$\sqrt[3]{64} = \sqrt[3]{2 \times 2 \times 2 \times 2 \times 2 \times 2}$$

$$= \sqrt[3]{4 \times 4 \times 4}$$

$$= 4$$

$$2 \text{ (a) } 12^3 = 1\,728 \text{ cm}^3$$

$$\frac{1\,728}{64} = 27$$

$$(b) 2.4 \text{ m} = 240 \text{ cm}, 3.3 \text{ m} = 330 \text{ cm}$$

Luas lantai/Area of floor

$$= 240 \times 330$$

$$= 79\,200 \text{ cm}^2$$

Luas jubin/Area of tiles

$$= 30^2$$

$$= 900 \text{ cm}^2$$

Bilangan jubin yang diperlukan

Number of tiles needed

$$= \frac{79\,200}{900}$$

$$= 88$$

$$(c) (12 - \sqrt{64})^3 = (12 - 8)^3$$

$$= 4^3$$

$$= 64$$

$$(d) \frac{28}{4} = 7 \text{ cm}$$

$$\text{Luas/Area} = 7^2$$

$$= 49 \text{ cm}^2$$

$$3 \text{ (a) } \sqrt[3]{1\,728} = 12 \text{ cm}$$

$$\sqrt{3.24} = 1.8 \text{ cm} = 180 \text{ cm}$$

Bilangan maksimum kotak dalam satu baris

Maximum number of boxes in a row

$$= \frac{180}{12}$$

$$= 15$$

$$(b) \text{ (i) } 3.2^3 \approx 3^3$$

$$= 27$$

$$\text{ (ii) } \sqrt{81.8} \approx \sqrt{81}$$

$$= 9$$

$$(c) \text{ (i) } \sqrt{196} = 14 \text{ m}$$

$$\text{Perimeter} = 4 \times 14$$

$$= 56 \text{ m}$$

$$\text{ (ii) } 56 \times 28 = \text{RM}1\,568$$