

Penyelesaian Lengkap

PRAKTIS 2

Bahagian A

- 1 $\frac{144}{28} = \frac{36}{7}$
28 bukan faktor bagi 144.
28 is not a factor of 144.
Jawapan/Answer: C
- 2 462 tidak boleh dibahagi tepat dengan 13, maka 13 bukan faktor perdana bagi 462.
462 cannot be divided completely by 13, thus 13 is not a prime factor.
Jawapan/Answer: D
- 3 1×126
 2×63
 3×42
 6×21
 9×14
14 dan 21 ialah faktor bagi 126, tetapi 3 bukan faktor bagi 14.
14 and 21 are factors of 126, but 3 is not a factor of 14.
Jawapan/Answer: D
- 4 1×360 8×45
 2×180 9×40
 3×120 10×36
 6×60 12×30
 4×90 15×24
 5×72 18×20
Bilangan faktor bagi 360 ialah 24.
The number of factors of 360 is 24.
Jawapan/Answer: B
- 5 $90 = 2 \times 3^2 \times 5$, $140 = 2^2 \times 5 \times 7$,
 $200 = 2^3 \times 5^2$, $320 = 2^6 \times 5$
 $2 + 3 + 5 = 10$
Jawapan/Answer: A
- 6 Jawapan/Answer: D
- 7 Jawapan/Answer: C
- 8 1×84 4×21
 2×42 6×14
 3×28 7×12
8 bukan faktor bagi 84, maka 84 bukan gandaan bagi 8.
8 is not a factor of 84, thus 84 is not a multiple of 8.
Jawapan/Answer: C
- 9
$$\begin{array}{r} 2 \overline{) 4, 6, 9} \\ 2 \overline{) 2, 3, 9} \\ 3 \overline{) 1, 3, 9} \\ 3 \overline{) 1, 1, 3} \\ 1, 1, 1 \end{array}$$

GSTK/LCM = $2 \times 2 \times 3 \times 3 = 36$
Jawapan/Answer: B

10

$$\begin{array}{r} 2 \overline{) 8, 12, 16} \\ 2 \overline{) 4, 6, 8} \\ 2, 3, 4 \end{array}$$

$$\text{FSTB/HCF} = 2 \times 2 = 4$$

$$\begin{array}{r} 2 \overline{) 8, 12, 16} \\ 2 \overline{) 4, 6, 8} \\ 2 \overline{) 2, 3, 4} \\ 2 \overline{) 1, 3, 2} \\ 3 \overline{) 1, 3, 1} \\ 1, 1, 1 \end{array}$$

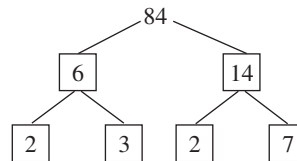
$$\text{GSTK/LCM} = 2 \times 2 \times 2 \times 2 \times 3 = 48$$

$$\text{Hasil tambah/Sum} = 4 + 48 = 52$$

Jawapan/Answer: C

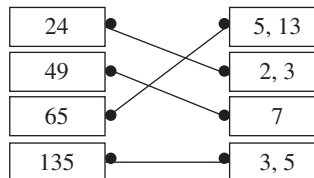
Bahagian B

1



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

3



4

②	6	9	8	⑦	11
13	⑤	③	12	14	10
20	30	35	28	70	60

Bahagian C

1 (a)
$$\begin{array}{r} 3 \overline{) 6, 12, 18} \\ 2 \overline{) 2, 4, 6} \\ 2 \overline{) 1, 2, 3} \\ 3 \overline{) 1, 1, 3} \\ 1, 1, 1 \end{array}$$

$$\text{GSTK/LCM} = 3 \times 2 \times 2 \times 3 = 36$$

$$\begin{array}{r|l} 3 & 6, 12, 18 \\ 2 & 2, 4, 6 \\ & 1, 2, 3 \end{array}$$

$$\text{FSTB/HCF} = 3 \times 2 = 6$$

$$\text{Beza/Difference} = 36 - 6 = 30$$

(b) (i) $48 = 2^4 \times 3$
 $72 = 2^3 \times 3^2$

(ii) $\text{FSTB/HCF} = 2 \times 2 \times 2 \times 3 = 24$
 $\text{GSTK/LCM} = 2 \times 2 \times 2 \times 2 \times 3 \times 3 = 144$

(c) Faktor bagi 24 = 1, 2, 3, 4, 6, 8, 12, 24

$$\text{Factors of 24} = \underline{1}, \underline{2}, \underline{3}, \underline{4}, \underline{6}, \underline{8}, 12, 24$$

Faktor bagi 32 = 1, 2, 4, 8, 16, 32

$$\text{Factors of 32} = \underline{1}, \underline{2}, \underline{4}, \underline{8}, 16, 32$$

Faktor sepunya = 1, 2, 4, 8

$$\text{Common factors} = 1, 2, 4, 8$$

2 (a)
$$\begin{array}{r|l} 3 & 54, 90, 72 \\ 3 & 18, 30, 24 \\ 2 & 6, 10, 8 \\ & 3, 5, 4 \end{array}$$

$$\text{FSTB/HCF} = 3 \times 3 \times 2 = 18$$

(b) (i) Faktor bagi 42 = 1, 2, 3, 6, 7, 14, 21, 42

$$\text{Factors of 42} = 1, 2, 3, 6, 7, 14, 21, 42$$

$$x = 6 \times 3 = 18$$

(ii)
$$\begin{array}{r|l} 3 & 18, 42 \\ 2 & 6, 14 \\ 3 & 3, 7 \\ 7 & 1, 7 \\ & 1, 1 \end{array}$$

$$\text{GSTK/LCM} = 3 \times 2 \times 3 \times 7 = 126$$

(c) Gandaan bagi 13 = 104, 117, 130, 143, 156, 169, 182, 195

$$\text{Multiples of 13} = 104, 117, 130, 143, 156, 169, 182, 195$$

$$\text{Bilangan gandaan} = 8$$

$$\text{Number of multiples} = 8$$

3 (a) Faktor bagi 48 = 1, 2, 3, 4, 6, 8, 12, 16, 24, 48

$$\text{Factors of 48} = 1, 2, 3, 4, 6, 8, 12, 16, 24, 48$$

$$y = 2, 3, 6, 8, 12, 16, 24$$

(b)
$$\begin{array}{r|l} 3 & 18, 24 \\ 2 & 6, 8 \\ 2 & 3, 4 \\ 2 & 3, 2 \\ 3 & 3, 1 \\ & 1, 1 \end{array}$$

$$\text{GSTK/LCM} = 3 \times 2 \times 2 \times 2 \times 3 = 72$$

$$\text{Bilangan gula-gula pudina}$$

$$\text{Number of mint candies}$$

$$= \frac{72}{18}$$

$$= 4$$

$$\text{Bilangan gula-gula buah-buahan}$$

$$\text{Number of fruit candies}$$

$$= \frac{72}{24}$$

$$= 3$$

(c) Faktor bagi 72 = 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72

$$\text{Factors of 72} = 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72$$

$$z = 12, 18, 24, 36$$