

TINGKATAN 1

BAB 5

Praktis Sumatif

Bahagian A

1 $\frac{xy + yz}{xy} = \frac{1(3) + 3(6)}{1(3)} = 7$

Jawapan: C

2 $x(x + 3) = x^2 + 3x$

Jawapan: A

3 $4n^2(5np + p^2) = 20n^3p + 4n^2p^2$

Jawapan: D

4 Satu nombor ialah x , nombor yang satu lagi ialah $3x$.
Hasil tambah dua nombor itu, $S = 4x$

Jawapan: C

5 $w = \frac{y(1-z)}{x^2}$

$w = \frac{(-1)(1-6)}{(1)^2} = 5$

Jawapan: C

6 $F = \frac{9}{5}C + 32$

$F = \frac{9}{5}(-65) + 32 = -85$

Jawapan: A

7 Jumlah bayaran = $3p$

Baki bayaran = $50 - 3p$

Jawapan: D

8 Bilangan penonton kanak-kanak

= $150 - 75 - 60 = 15$ orang

Jawapan: A

9 Perimeter = $2(5m + 6n) + 2(m - 2n)$

= $10m + 12n + 2m - 4n$

= $12m + 8n$

Jawapan: C

10 $2x - 5 - 21 = 14$

$2x = 40$

$x = 20$

Jawapan: D

Bahagian B

- 1 (a) (i) J = bilangan kali nama John disebut
 x = purata bilangan kali nama John disebut untuk baki 12 muka surat
 $J = 20(4) + 12x$
 $J = 80 + 12x$

$20x \quad 20 + 12x \quad 80 + 12x \quad 80x + 12$

(ii) $x = 6$

$J = 80 + 12(6) = 152$

$72 \quad 80 \quad 92 \quad 152$

(b) $5f - 2g + 8 = 5(2) - 2(-3) + 8$
= 24

$3f^2 - g = 3(2)^2 - (-3)$
= 12 + 3

= 15

$4(f + 3) = 4(2 + 3)$

= 4(5)

= 20

$2(6 - fg) = 2(6 - 2(-3))$

= 2(12)

= 24

Maka, $5f - 2g + 8$ dan $2(6 - fg)$ mempunyai nilai yang sama.

$5f - 2g + 8 \quad 3f^2 - g \quad 4(f + 3) \quad 2(6 - fg)$

2 $3w(2v - w) - 2v(5w - 4) + 7$

= $6vw - 3w^2 - 10vw + 8v + 7$

= $-4vw - 3w^2 + 8v + 7$

(a) Pekali bagi $vw = -4$

(b) Pekali bagi $w^2 = -3$

(c) Pekali bagi $v = 8$

(d) Bilangan sebutan algebra = 4

Bahagian C

1 (a) (i) $K = x + 5y$

(ii) Jumlah kos, K

= $50 + 30(5)$

= $50 + 150$

= 200 sen

= RM2

(iii) Jumlah kos, K

= $80 + y(5)$

= 280 sen

$80 + 5y = 280$

$5y = 200$

$y = 40$ sen

(b) (i) $4n(nr - 7y^3) - 2y(-9y^2n + 8n^2r)$

= $4n^2r - 28ny^3 + 18ny^3 - 16n^2yr$

= $4n^2r - 10ny^3 - 16n^2yr$

(ii) $\frac{4a^3b^2c^3 \times (-3a^2c^2)}{-6a^2bc}$

= $\frac{-12a^5b^2c^5}{-6a^2bc}$

= $\frac{-12a^5b^2c^5}{-6a^2bc}$

= $2a^3bc^4$

(c) (i) $\frac{5rs^3}{7rs^3} + 2rs^3 - 3r^3s - \frac{(-r^3s)}{7rs^3}$

= $7rs^3 - 2r^3s$

(ii) $7x^2 - 2(x^2 + 5) - \frac{(3-x)}{5x^2 + x - 13}$

= $5x^2 + x - 13$