

Penyelesaian Lengkap

PRAKTIK 5

Bahagian A

1 Jawapan/Answer: C

2 Jawapan/Answer: A

3 Jawapan/Answer: C

$$4 \frac{p+9}{3} - \frac{q}{r} = \frac{3+9}{3} - \frac{4}{-2}$$

$$= 6$$

Jawapan/Answer: B

$$5 \frac{3}{4}p - \frac{1}{2} - \frac{1}{3}p + 2 = \frac{9}{12}p - \frac{4}{12}p - \frac{1}{2} + \frac{4}{2}$$

$$= \frac{5}{12}p + \frac{3}{2}$$

Jawapan/Answer: C

$$6 (5r^2 + 3rs) - (8r^2 + 2rs)$$

$$= 5r^2 - 8r^2 + 3rs - 2rs$$

$$= rs - 3r^2$$

Jawapan/Answer: C

$$7 \frac{24pq^3r}{3qr^2} = \frac{8pq^2}{r}$$

Jawapan/Answer: D

$$8 \frac{12xy^3}{4x^3y} \times 3x = \frac{9y^2}{x}$$

Jawapan/Answer: B

$$9 4ab + 2a - (8ab + b)$$

$$= 4ab - 8ab + 2a - b$$

$$= 2a - b - 4ab$$

Jawapan/Answer: C

$$10 6xy^2 \times 5x^2 - \frac{1}{2} \times 6xy^2 \times 4x^2$$

$$= 30x^3y^2 - 12x^3y^2$$

$$= 18x^3y^2$$

Jawapan/Answer: A

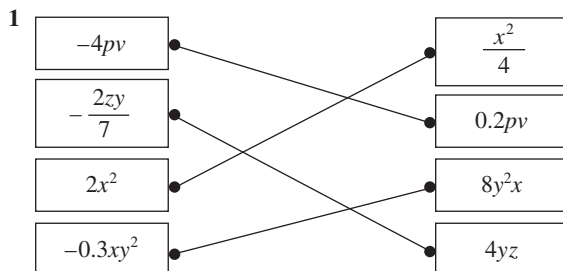
$$11 2(x+2) + 2(2x)$$

$$= 2x + 4 + 4x$$

$$= 6x + 4$$

Jawapan/Answer: C

Bahagian B



$$2 (a) \frac{pq+3}{r} = \frac{(4)(3)+3}{-5} = -3$$

$$(b) \frac{pr}{2} + 3q = \frac{(4)(-5)}{2} + 3(3) = -1$$

$$(c) \frac{qr}{5} + p = \frac{(3)(-5)}{5} + 4 = 1$$

$$(d) \frac{3}{q} - p - r = \frac{3}{3} - 4 - (-5) = 2$$

3 (a) $3k + 4h = 7h$ [X]

$$(b) \frac{x^2}{4} + \frac{x^2}{6} = \frac{3x^2 + 2x^2}{12} = \frac{5x^2}{12}$$
 [✓]

$$(c) 4x^2y \times 6yz = 24x^2y^2z$$
 [X]

$$(d) 3x^2 - (5 - x^2) = 3x^2 + x^2 - 5$$

$$= 4x^2 - 5$$
 [X]

$$4 (a) \frac{8x^2y}{2xy} = 4x$$

$$(b) 5x^2y - 3x^2y = 2x^2y$$

$$(c) 2xy \times 3xy^2 = 6x^2y^3$$

$$(d) 6xy + 4xy = 10xy$$

Bahagian C

1 (a) Nora = n , Maya = $n + 4$, Liam = $2n$
Jumlah/Total = $n + n + 4 + 2n = 4n + 4$

$$(b) (i) 2n^2 - 6n - 9n^2 - 3 + 7n$$

$$= 2n^2 - 9n^2 - 6n + 7n - 3$$

$$= -7n^2 + n - 3$$

$$= n - 7n^2 - 3$$

$$(ii) \left(\frac{4}{5}f^2 - 2g\right) - \left(\frac{5}{6}f^2 - \frac{1}{2}g\right)$$

$$= \frac{4}{5}f^2 - 2g - \frac{5}{6}f^2 + \frac{1}{2}g$$

$$= \frac{24}{30}f^2 - \frac{25}{30}f^2 - \frac{4}{2}g + \frac{1}{2}g$$

$$= -\frac{1}{30}f^2 - \frac{3}{2}g$$

$$(iii) -2ab \times 8b^2 = -16ab^3$$

$$(iv) \frac{12xy^3}{3xy} = 4y^2$$

$$(c) (i) x + 1 + x + 1 + 3x - 4 + 3x - 4 = 8x - 6$$

$$(ii) 8(4) - 6 = 26 \text{ cm}$$

2 (a) (i) $-5ab \div 12a^3b^2 \times 3ab^3$

$$= \frac{-5ab \times 3ab^3}{12a^3b^2}$$

$$= -\frac{5b^2}{4a}$$

$$(ii) 7xy^3 - 4xy \times 5y^2$$

$$= 7xy^3 - 20xy^3$$

$$= -13xy^3$$

- (b) (i) $\frac{9s^2t^3}{6st^2} \times 2 = 3st$
 (ii) Tinggi segi tiga/Height of the triangle
 $= 3(3)(2)$
 $= 18 \text{ cm}$
- (c) $84p^3qr^3 \div 6pq^2 \div 4pqr$
 $= \frac{84p^3qr^3}{6pq^2 \times 4pqr}$
 $= \frac{7pr^2}{2q^2}$

- 3 (a) (i) $\frac{x}{3} + 4$
 (ii) $5x^2$
 (iii) $(4x)^2 = 16x^2 \text{ cm}$
- (b) (i) Sebutan tidak serupa/Unlike terms
 (ii) Sebutan serupa/Like terms
 (iii) Sebutan tidak serupa/Unlike terms
- (c) (i) $st \times st \times st = s^3t^3$
 (ii) $(3x + 5)(3x + 5) = 9x^2 + 30x + 25$
- (d) $5x - 6y - (4y - 3x) + 2xy$
 $= 5x - 6y - 4y + 3x + 2xy$
 $= 8x - 10y + 2xy$