

## TINGKATAN 2

### BAB 12

#### Praktis Sumatif

#### Bahagian A

$$1 \quad \frac{4+5+4+12+10+x+6}{7} = 7$$

$$41+x = 49$$

$$x = 8$$

Jawapan: C

$$2 \quad \begin{aligned} \text{Jumlah bagi set data 5 nombor} &= 20(5) \\ &= 100 \\ \text{Jumlah bagi set data 4 nombor} &= 11(4) \\ &= 44 \\ \text{Min} &= \frac{100+44}{9} = 16 \end{aligned}$$

Jawapan: C

$$3 \quad \text{Min} = \frac{0(3)+1(4)+2(1)+3y+4(2)}{3+4+1+y+2} = 2$$

$$4+2+3y+8 = 2(10+y)$$

$$14+3y = 20+2y$$

$$y = 6$$

Maka, mod = 3

Jawapan: D

$$4 \quad \text{Kedudukan median} = \frac{30}{2} = \text{ke-15}$$

$$\text{Median} = 40 - 49$$

Jawapan: B

$$5 \quad \begin{aligned} \text{mod} &= 3 \\ 2x &> 6 \\ x &> 3 \end{aligned}$$

Maka,  $x = 4$

Jawapan: D

$$6 \quad \begin{aligned} \text{min} &= 6 \\ \frac{2+3+5+11+3+10+11+2+x+y}{10} &= 6 \\ 47+x+y &= 60 \\ x+y &= 13 \end{aligned}$$

Mod = 3  $\rightarrow x = 3, y = 10$  atau  $x = 10, y = 3$

Jawapan: B

$$7 \quad \begin{aligned} \text{Median} &= \text{data ke-} \left( \frac{27+1}{2} \right) \\ &= \text{data ke-14} \\ \text{Median} &= \text{saiz 6} \end{aligned}$$

Jawapan: C

8 Jawapan: C

$$9 \quad \begin{aligned} 79, 85, 85, 88, 90, 95 &\rightarrow \text{median} = 86.5, \text{mod} = 85 \\ 23, 79, 85, 85, 88, 90, 95 &\rightarrow \text{median} = 85, \text{mod} = 85 \end{aligned}$$

Min dan median akan berubah.

Jawapan: A

$$10 \quad \begin{aligned} \text{Min} &= \frac{152(6) + 157(10) + 162(19) + 167(22) + 172(11) + 177(7)}{75} \\ &= \frac{12\,365}{75} \\ &= 164.87 \text{ g} \end{aligned}$$

Jawapan: B

#### Bahagian B

$$1 \quad (a) \quad \begin{aligned} 2.3, 2.9, 2.9, 3.2, 3.3, 3.3, 5.4, 5.8 \\ \text{Mod} &= 2.9, 2.3 \end{aligned}$$

$$\text{Median} = \frac{3.2+3.3}{2}$$

$$= 3.25 \text{ cm}$$

$$(b) \quad 1, 3, 5, 6, 7, 12$$

$$\text{Median} = \frac{5+6}{2}$$

$$= 5.5$$

#### Bahagian C

1 (a)

Markah	Kekerapan
60-64	6
65-69	8
70-74	5
75-79	5
80-84	1

$$(b) \quad (i) \quad \text{Kelas mod} = 65 - 69$$

$$(ii) \quad \begin{aligned} \text{Kelas median} &= \text{data ke-13} \\ &= 65 - 69 \end{aligned}$$

$$(iii) \quad \text{Min} = \frac{62(6) + 67(8) + 72(5) + 77(5) + 82(1)}{25}$$

$$= 69.4$$

$$(c) \quad (i) \quad \text{Min} = 81 - 5 = 76$$

$$\text{Mod} = 75 - 5 = 70$$

$$\text{Median} = 80 - 5 = 75$$

$$(ii) \quad \text{Min} = \left( \frac{81}{2} \right) + 3 = 43.5$$

$$\text{Mod} = \left( \frac{75}{2} \right) + 3 = 40.5$$

$$\text{Median} = \left( \frac{80}{2} \right) + 3 = 43$$