Fully-worked Solutions

Practice 12

Formative Practice

- 1 Total sales by canteen H
 - $= RM(40 \times 0.60 + 60 \times 0.80)$
 - = RM72
 - Total sales by canteen K
 - $= RM(30 \times 0.60 + 50 \times 0.80)$
 - = RM58
 - Difference in sales between the two canteens
 - = RM72 RM58
 - = RM14
 - Answer: A
- 2 Number of refrigerators sold in February
 - $= 5 \times 3$
 - = 15

Total number of refrigerators sold in three months $= (2 + 5 + 3) \times 3$

- = 30
- Ratio
- = 15:30
- = 1 : 2

(b)

- Answer: D
- 3 (a) Categorical data (b) Numerical data
- 4 (a) Categorical data

State	Frequency
Selangor	74
Penang	60
Perak	48
Kelantan	43
Johor	35

5 (a) Numerical data

(b)	Number of items	Tally mark	Frequency
	1		3
	2	Ш	5
	3		3
	4	J₩1 I	6
	5		3



represents 5 letters



8

(b)

6



A1

9 (a) Total expenses = RM3 000 Food: $\frac{1\ 200}{3\ 000} \times 360^{\circ} = 144^{\circ}$ Rental: $\frac{1\ 000}{3\ 000} \times 360^{\circ} = 120^{\circ}$

 $\frac{500}{3\ 000} \times 360^\circ = 60^\circ$ Electricity bill: $\frac{200}{3\ 000} \times 360^\circ = 24^\circ$

 $\frac{100}{3\ 000} \times 360^{\circ} = 12^{\circ}$

(b)







Time (minute)





16	(a)
	~ ~

Subject	Number of students
Mathematics	$\frac{80^{\circ}}{360^{\circ}} \times 180 = 40$
History	$\frac{20^{\circ}}{360^{\circ}} \times 180 = 10$
Malay Language	$\frac{100^{\circ}}{360^{\circ}} \times 180 = 50$
English Language	$\frac{40^{\circ}}{360^{\circ}} \times 180 = 20$
Science	$\frac{120^{\circ}}{360^{\circ}} \times 180 = 60$



$$=\frac{8}{40} \times 100\%$$

= 20%

- 23 (a) Number of customers who refueled between 20 litres and 50 litres of petrol
 = 20 + 15 + 5
 - = 40
 - (b) Ratio of the number of customers who refueled 25 litres of petrol to the number of customers who refueled 45 litres of petrol
 - = 20 : 5
 - = 4 : 1

Summative Practice

1 Total sales for the four months

$$= 20 + 30 + 40 + x$$

= 90 + x
$$x = \frac{40}{100} \times (90 + x)$$

$$x = \frac{2}{x} \times (90 + x)$$

$$5x = 180 + 2x$$

$$3x = 180$$

$$x = 60$$

Answer: **D**

- B Correct
- C The height of two rose plants with equal height is 176 cm.
 - Wrong
- D Tallest height
 - = 187 cm
 - Shortest height = 152 cm
 - Difference in height

$$= 187 - 152$$

= 35 cm

Answer: C



A3

B
$$\frac{n}{10} = \frac{90^{\circ}}{60^{\circ}}$$

 $n = \frac{90^{\circ}}{60^{\circ}} \times 10 = 15$

Number of buyers who chose blue colour = 15Wrong

- С N = the total number of cars sold
 - $10 = 60^{\circ}$ N^{-} 360°
 - 10 = 1 λT 6

$$N = 60$$

- Wrong
- Correct D
 - Answer: D
- True **4** A
 - Number of vehicles that broke down on Monday = 8 В Number of vehicles that broke down on Friday = 10 False
 - C 6:12 = 1:2 True
 - D Total number of vehicles that broke down on Monday until Thursday = 8 + 6 + 12 + 4 = 30

Percentage

$$=\frac{30}{40} \times 100\% = 75\%$$

True
Answer: **B**





A4

	Stem	Leaf									
	2	7	8								
	3	1	1	3	4	4					
	4	3	5	6	8						
	5	0	6	7	7	8	8	9			
	6	2	3	3	3	5	5	7	7		
	7	1	4	8	9	9					
	8	0	1	5	5	7					
Key: 6 2 means 62 marks											

(b) Number of students who achieved between 45 and 65 marks = 13



7 (a) Television :
$$\frac{24\ 000}{72\ 000} \times 360^{\circ} = 120^{\circ}$$

Refrigerator : $\frac{18\ 000}{72\ 000} \times 360^{\circ} = 90^{\circ}$
Washing machine : $\frac{12\ 000}{72\ 000} \times 360^{\circ}$
 $= 60^{\circ}$
Fan : $\frac{6\ 000}{72\ 000} \times 360^{\circ} = 30^{\circ}$
Air-conditioner : $\frac{12\ 000}{72\ 000} \times 360^{\circ}$
 $= 60^{\circ}$

24 000

Electrical item	Angle of sector				
Television	120°				
Refrigerator	90°				
Washing machine	60°				
Fan	30°				
Air-conditioner	60°				

(b)



8 (a) Sales of passenger cars for the year 2020

$$= \frac{100 - 90}{100} \times 100$$
$$= \frac{10}{100} \times 1\ 000 = 100$$

Sales of passenger cars for the year 2021

$$= \frac{100 + 500}{100} \times 100$$
$$= \frac{600}{100} \times 100 = 600$$

=



(b) The sales of passenger cars were the lowest in the period was in 2020.

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