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1

[Worksheet about Rotation](#)

2

**REVISION 14**  
**Section B**  
**[ 20 marks]**  
**Answer all the equations.**

1. a) Determine whether each of the following statements is 'True' or 'False'

- i) 5 is a prime factor of 20
- ii) 3 is a prime factor of 29
- iii) 4 is a prime factor of 16

[ 3 marks]

b) The number sequence in the answer space is Fibonacci Numbers. Complete the number sequence.

Answer:

..., , 21, 34, 55,

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[ 2 marks]

2.a) following linear inequalities with its correct solution.

*Padankan setiap ketaksamaan linear dengan penyelesaiannya yang betul.*

**Linear Inequalities**  
*Ketaksamaan Linear*

$6 - x > 4$

$1 \leq 5x - 9$

**Solutions**  
*Penyelesaian*

$x < 2$

$x \leq 2$

$x > 2$

$x \geq 2$

[2 marks/ markah]

2.b) Given  $\xi = \{\text{letter in the word 'B A D M I N T O N'}\}$  and  $P = \{\text{vowels}\}$ . Complete the table in the answer space.

Number of elements in $\xi$	
Complement of set P	{ <span style="border-bottom: 1px solid black; display: inline-block; width: 150px;"></span> }

[2 marks]

3.a) Diagram 10 shows an irregular polygon

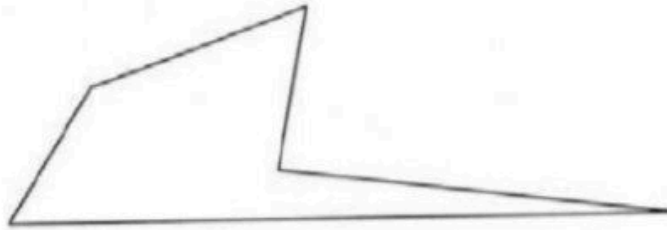


Diagram 10

Determine the sum of exterior angles and the sum of interior angles of the polygon.

Sum of exterior angles	
Sum of interior angles	

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[2 marks]

3.b) Match the following mathematical operations to the correct answers.

*Padankan operasi matematik berikut kepada jawapan yang betul.*

[2 marks/markah]

Answer / Jawapan:

**Mathematical operation**  
*Operasi matematik*

$-3 - (-9)$

$-24 + (-6)$

**Answer**  
*Jawapan*

4

6

10

[3 marks]

**Section C**  
**Answers all the equations**

1. a) Find the value of each of the following.

i)  $27 - \sqrt[3]{-8}$

ii)  $(-3)^3 + \sqrt[3]{\frac{27}{216}} - \sqrt{0.0081}$

[4 marks]

Answer:

i)

= ( )

ii)

= ( ) \_\_\_\_\_

=

=

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FROM

1.b) Diagram 11(b) shows the stem-and-leaf plot of the weight, in kg for 20 students of Class 3 Jujur.

Rajah 11(b) menunjukkan plot batang-dan-daun bagi berat, dalam kg bagi 20 orang pelajar Kelas 3 Jujur.

**Weight, in kg for 20 students of Class 3 Jujur**  
**Berat, dalam kg bagi 20 orang pelajar Kelas 3 Jujur**

Stem Batang	Leaf Daun
4	8 8 8 8 9 9 9
5	5 5 6 7 7 8 8 9 9
6	2 4 5
7	1

Key:  
Kunci:  
4 | 8 means 48 kg  
bermaksud

Diagram 11(b)

20% of the students are overweight while the rest of them has ideal weight. List all the possible weights of the students who are overweight.

20% daripada bilangan pelajar itu mempunyai berat badan berlebihan manakala pelajar-pelajar lain mempunyai berat badan unggul. Senaraikan semua kemungkinan berat pelajar yang mempunyai berat badan berlebihan.

Answer/ Jawapan:

[2 marks/ markah]

number of student overweight = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

list of possible weight are \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

2.  
a) Solve the following simultaneous linear inequalities

$$3x - 1 > 8 \text{ and } x \geq 2x - 6$$

[3 marks]

Answer:

$$\begin{array}{ccc} & > & \\ & & \geq \\ x & & x \\ & & \\ & & x \end{array}$$

- b) Diagram 19 shows the distribution of student's quiz marks.



Diagram 19

Find the value of median

Answer: