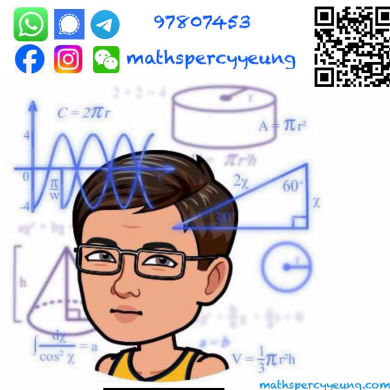


WKF Grade 9 Mathematics Term 2 Easter Holiday Assignment

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Revision MC Test on 17 April 2026 (Friday)

Chapter 1 – More about Factorization of Polynomials

- $-4a - 16b =$
 - $-4(a - 4b).$
 - $-4(a + 4b).$
 - $-4(a - 16b).$
 - $-4(a + 16b).$
- Which of the following must have $x - 5$ as a factor?
 - $5x - 5$
 - $x^2 - 10$
 - $x^2 - 10x + 25$
 - $xy - x + 5y - 5$
- Which of the following is/are factor(s) of $4x^2 + 32x + 64$?
 - $4x$
 - $x - 4$
 - $x + 4$
 - I only
 - III only
 - I and III only
 - II and III only
- $(5a + b)(2a - 3b) - b(4a - 6b) =$
 - $(2a - 3b)(5a - b).$
 - $(2a - 3b)(5a + b).$
 - $(2a + 3b)(5a - b).$
 - $(2a + 3b)(5a + b).$
- $2x^2 + 2xz - 3x + 2xy + 2yz - 3y =$
 - $(x - y)(2x + 2z - 3).$
 - $(x - y)(2x - 2z + 3).$
 - $(x + y)(2x + 2z - 3).$
 - $(x + y)(2x - 2z + 3).$

6. $36 - (2m - 5n)^2 =$
- A. $(6 - 2m - 5n)(6 + 2m + 5n)$. B. $(6 - 2m - 5n)(6 + 2m - 5n)$.
- C. $(6 - 2m + 5n)(6 + 2m + 5n)$. D. $(6 - 2m + 5n)(6 + 2m - 5n)$.
7. $a^2 - a - b^2 - b =$
- A. $(a + b)(a - b + 1)$. B. $(a + b)(a - b - 1)$.
- C. $(a - b)(a + b + 1)$. D. $(a - b)(a + b - 1)$.
8. $49x^2 - y^2 - 14x + 2y =$
- A. $(7x + y)(7x - y + 2)$. B. $(7x + y)(7x + y - 2)$.
- C. $(7x - y)(7x - y + 2)$. D. $(7x - y)(7x + y - 2)$.
9. $(3s + t)^2 - (3s - t)^2 =$
- A. $6s^2$. B. $12st$.
- C. $6s^2 + 2t^2$. D. $6s^2 - 2t^2$.
10. $(4m + n)^2 - (m - 4n)^2 =$
- A. $8mn$. B. $(3m + 5n)(5m - 3n)$.
- C. $(3m - 5n)(5m + 3n)$. D. $3m^2 + 5n^2$.
11. Which of the following is/are factor(s) of $3(x - y)^2 - x^2 + y^2$?
- I. $x + y$
- II. $x - y$
- III. $x - 2y$
- A. I and II only B. I and III only
- C. II and III only D. I, II and III
12. If $3x + y = 12$ and $x - z = -2$, find the value of $9x^2 - 3yz + 3xy - 9xz$.
- A. -72 B. -24
- C. 10 D. 30

Chapter 8 – Coordinate Geometry of Straight Lines

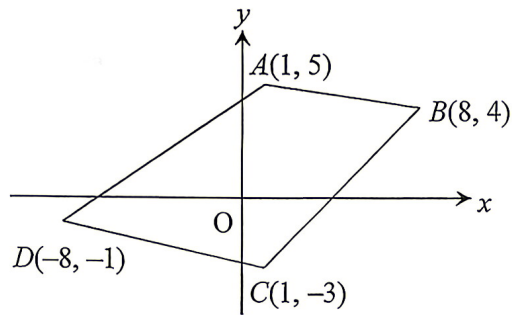
24. Which of the following points is closest to the origin?

- | | |
|-------------|--------------|
| A. (9, 7) | B. (8, -8) |
| C. (-10, 5) | D. (-1, -11) |

25. $P(-3, -1)$, $Q(7, 3)$ and R are the vertices of an isosceles triangle. Which of the following cannot be the coordinates of R ?

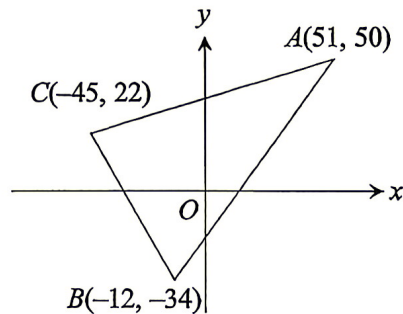
- | | |
|--------------|-------------|
| A. (7, -5) | B. (-13, 2) |
| C. (-7, -11) | D. (-2, 11) |

26. Find the area of quadrilateral $ABCD$ in the figure.



- | | |
|--------------------|--------------------|
| A. 60 square units | B. 62 square units |
| C. 64 square units | D. 68 square units |

27. Find the perimeter of $\triangle ABC$ in the figure.



- | | |
|--------------|--------------|
| A. 266 units | B. 270 units |
| C. 274 units | D. 278 units |

77. Consider the following data:

45 17 20 21 28 30 39 m n

If both the mean and the median of the above data are 30, which of the following are true?

I. $m \geq 30$

II. $n \leq 40$

III. $m + n = 70$

A. I and II only

B. I and III only

C. II and III only

D. I, II and III

78. Consider the following data:

24 9 9 12 13 13 15 16 20 x y

If both the mean and the median of the above data are 15, which of the following are true?

I. $x \leq 19$

II. $y \geq 15$

III. $x + y = 34$

A. I and II only

B. I and III only

C. II and III only

D. I, II and III

79. The following table shows the lengths of some screws.

Length (cm)	1 – 5	6 – 10	11 – 15	16 – 20
Frequency	3	5	9	3

Find the mean length of these screws.

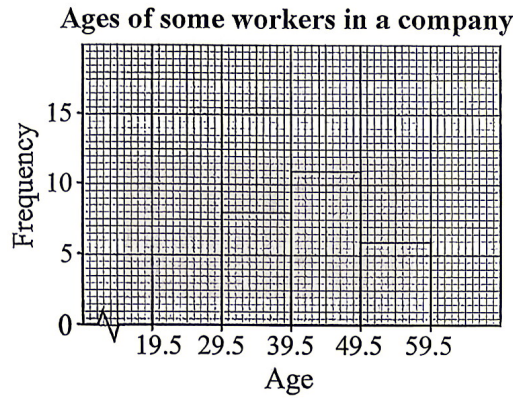
A. 9 cm

B. 10 cm

C. 10.5 cm

D. 11 cm

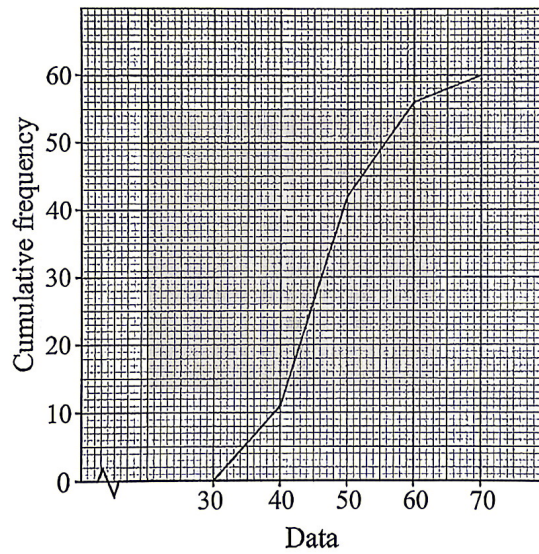
80. The following histogram shows the ages of some workers in a company.



Find the mean age of these workers.

- | | |
|-------|---------|
| A. 39 | B. 39.5 |
| C. 40 | D. 40.5 |

81. The cumulative frequency polygon below shows some data.



Find the median of the data.

- | | |
|-------|-------|
| A. 40 | B. 45 |
| C. 46 | D. 50 |

89. It is given that k is a number. Let S_1 be a group of numbers $\{k - 4, k - 4, k, k + 1, k + 2\}$ and S_2 be another group of numbers $\{k - 6, k - 5, k - 1, k + 1, k + 2, k + 3\}$. Which of the following is/are true?

- I. The means of S_1 and S_2 are equal.
- II. The medians of S_1 and S_2 are equal.
- III. The modes of S_1 and S_2 are equal.

- A. I only
- B. II only
- C. I and II only
- D. I and III only

90. The mean, the median and the difference between the smallest and the largest data of a set of numbers are p , q and r respectively. Each number of the set is multiplied by 4 and then 6 is added to each resulting number to form a new set of numbers. Which of the following is/are true?

- I. The mean of the new set of numbers is $4p + 6$.
- II. The median of the new set of numbers is $4q + 6$.
- III. The difference between the smallest and the largest data of the new set of numbers is $4r + 6$.

- A. I and II only
- B. I and III only
- C. II and III only
- D. I, II and III

91. It is given that n is a positive integer. Let u , v and w be the mean, the median and the difference between the smallest and largest data of the group of numbers $\{2 + 4n, 3 + 4n, 5 + 4n, 7 + 4n, 8 + 4n\}$ respectively. Which of the following must be true?

- I. $u = v$
- II. $v > 5$
- III. $w = 6$

- A. I and II only
- B. I and III only
- C. II and III only
- D. I, II and III

92. The following table shows the marks of Sean in 3 quizzes.

	Quiz 1	Quiz 2	Quiz 3
Marks	92	84	96
Weight	25%	35%	40%

Find Sean's weighted mean mark.

- A. 90.6
B. 90.7
C. 90.8
D. 90.9
93. The following table shows the weights of 3 papers of an examination and the marks obtained by Eddie.

	Paper 1	Paper 2	Paper 3
Marks	75	68	82
Weight	2	5	3

Find Eddie's weighted mean mark.

- A. 73.6
B. 75
C. 75.7
D. 76.4
94. The following table shows the marks of Jack in 4 quizzes.

	Quiz 1	Quiz 2	Quiz 3	Quiz 4
Marks	86	73	x	90
Weight	2	3	3	2

It is given that the weighted mean mark of Jack in the 4 quizzes is 81.7. Find the value of x .

- A. 80
B. 82
C. 84
D. 85

END OF ASSIGNMENT