NEXT EXAMINATIONS BOARD

PRIMARY SIX MATHEMATICS MARKING GUIDE

End of Year 2026 (Promotional Set)

SECTION A (40 MARKS)

Questions 1 to 20 carry two marks each. Show your working.

1. Work out: 8.7 − 3.2

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  8.7
- 3.2
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  5.5
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✓ M_1 ✓ A_1

2. Find the number that has been expanded to give: $(7 \times 10^4) + (4 \times 10^2) + (8 \times 10^0)$

$(7 \times 10^4) = 70{,}000$

$(4 \times 10^2) = 400$

$(8 \times 10^0) = 8$

$70{,}000 + 400 + 8$ ✓ M_1

$= 70{,}408$ ✓ A_1

3. Write 64,302 in words.

64,302 = Sixty-four thousand ✓ B_1

three hundred two ✓ B_1

4. Simplify: 7y + 5x − 2y − 3x

7y - 2y = 5y ✓ M_1

5x - 3x = 2x

= 5y + 2x ✓ A_1

5. Find the square of the next number in the sequence: 2, 3, 5, 7, _____

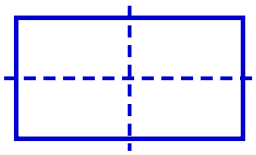
2, 3, 5, 7 are prime numbers; next prime = 11 ✓ M_1

$11^2 = 11 \times 11 = 121$ ✓ A_1

6. Draw a rectangle and on it show its lines of folding symmetry.

A rectangle drawn ✓ B_1

Two lines of folding symmetry shown through the midpoints of the opposite sides ✓ B_1



7. What is the smallest number of sweets that can be divided among 6 or 7 boys leaving a remainder of 3 sweets?

LCM of 6 and 7 = 6 x 7 = 42 ✓ M_1

Number of sweets = 42 + 3 = 45 ✓ A_1

8. Work out: $110_{two} + 11_{two}$

$1\ 1\ 0_{two}$

$+\quad 1\ 1_{two}$ ✓ M_1

$1\ 0\ 0\ 1_{two}$ ✓ A_1

9. Baseke's salary of shs 20,000 was increased in the ratio 7 : 4. Find his new salary.

New salary = 7/4 x 20,000 ✓ M_1

= 7 x 5,000

= shs 35,000 ✓ A_1

10. A motorist covered a distance of 240 km in 4 hours. Calculate the speed at which he was travelling.

Speed = Distance ÷ Time

= 240 km ÷ 4 hrs ✓ M_1

= 60 km/hr ✓ A_1

11. Given the number 5,046, find the sum of the value of 5 and the place value of 4.

Value of 5 = 5,000; place value of 4 = 40

5,000 + 40 ✓ M_1

= 5,040 ✓ A_1

12. Using a ruler and a pair of compasses only, construct an angle of 30° in the space provided below.

60° angle constructed using a ruler and a pair of compasses (arcs shown) ✓ B_1

60° angle bisected to give 30° (arcs shown) ✓ B_1

13. Find the average of: 9, 6, 4, 6 and 10.

Average = Sum of items ÷ Number of items

= (9 + 6 + 4 + 6 + 10) ÷ 5 ✓ M_1

= 35 ÷ 5 = 7 ✓ A_1

14. A motorist covered a distance of 180 km at a speed of 80 km/hr. Find the time taken to cover that distance.

Time = Distance ÷ Speed

= 180 km ÷ 80 km/hr ✓ M_1

= 2.25 hrs = 2 hrs 15 min ✓ A_1

15. Benard is 79 years old. Express his age in Roman numerals.

79 = 70 + 9 = LXX + IX ✓ M_1

= LXXIX ✓ A_1

16. The cost of 3 box files is shs 21,000. What is the cost of 9 similar box files?

1 file = shs 21,000 ÷ 3 = shs 7,000 ✓ M_1

9 files = 9 x 7,000 = shs 63,000 ✓ A_1

17. Given that Set B = {all vowel letters of the English alphabet}, find n(B).

B = {a, e, i, o, u} ✓ M_1

n(B) = 5 ✓ A_1

18. Smith had 250 British pounds. He exchanged all the pounds to Uganda shillings and got shs 1,200,000. Calculate the rate of exchange of the British pound in Uganda shillings.

250 pounds = shs 1,200,000

1 pound = 1,200,000 ÷ 250 ✓ M_1

= shs 4,800 ✓ A_1

19. List all the factors of 24.

1 x 24, 2 x 12, 3 x 8, 4 x 6 ✓ M_1

Factors: 1, 2, 3, 4, 6, 8, 12, 24 ✓ A_1

20. Convert 0.54 kilograms into grams.

1 kg = 1,000 g

0.54 x 1,000 ✓ M_1

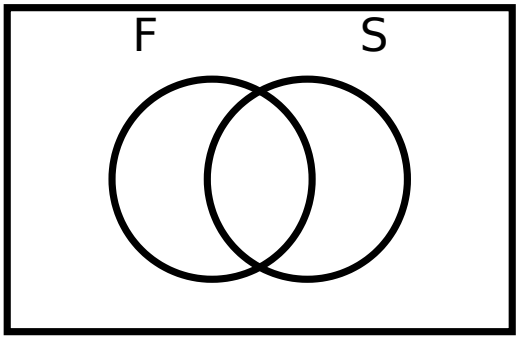
= 540 g ✓ A_1

SECTION B (60 MARKS)

Answer all questions in this section. Marks for each question are indicated in the brackets.

21. At a party attended by 40 guests, 20 took Fanta (F), 25 took Sprite (S), 3 took neither of the drinks while *x* took both drinks.

a) Complete the Venn diagram below. *(3 marks)*



n(ε) = ...

n(F) = 20 n(S) = 25

b) How many guests took both drinks?

c) How many guests took only one drink?

(a)

Intersection: x = 8 ✓ B_1

F only = 20 - 8 = 12 ✓ B_1

S only = 25 - 8 = 17 ✓ B_1

Neither = 3 (outside the circles)

(b)

(20 - x) + x + (25 - x) + 3 = 40 ✓ M_1

48 - x = 40, so x = 8 guests ✓ A_1

(c)

Only one drink = 12 + 17 = 29 guests ✓ B_1

22. a) Simplify: 0.64 × 0.15 *(2 marks)*

b) A family bought a loaf of bread to be eaten in three intervals of time. In the morning, $\frac{2}{5}$ of the bread was eaten and $\frac{1}{3}$ was eaten in the afternoon. The remaining part was eaten in the evening. The family has 4 members. Find the part of the bread eaten by each member in the evening if the bread was shared equally. *(4 marks)*

(a)

64 x 15 = 640 + 320 = 960 ✓ M_1

0.64 x 0.15 = 0.0960 = 0.096 ✓ A_1

(b)

2/5 + 1/3 = (6 + 5)/15 ✓ M_1

= 11/15 eaten in the morning and afternoon ✓ A_1

Remaining = 15/15 - 11/15 = 4/15 ✓ M_1

Each member = 4/15 ÷ 4 = 4/15 x 1/4 = 1/15 ✓ A_1

23. A taxi left Mbarara at 5:40 p.m. and reached Kampala at 8:10 p.m. The distance between the two towns is 150 km.
a) How long did the taxi take to travel from Mbarara to Kampala?
b) Calculate the average speed of the taxi.

(a)
5:40 p.m. to 6:00 p.m. = 20 min; 6:00 p.m. to 8:00 p.m. = 2 hrs; 8:00 p.m. to 8:10 p.m. = 10 min ✓ M_1

Time taken = 2 hrs 30 min ✓ A_1

(b)
Speed = Distance ÷ Time = 150 ÷ 2.5 ✓ M_1

= 60 km/hr ✓ A_1

24. The sum of three consecutive even numbers is 36. Find the largest number.

Let the three numbers be n, (n + 2) and (n + 4) ✓ B_1

n + (n + 2) + (n + 4) = 36 ✓ M_1

3n + 6 = 36, 3n = 30, n = 10 ✓ A_1

Numbers: 10, 12, 14; the largest = 14 ✓ A_1

25. The table below shows the scores of Primary Six pupils in an exam.

Marks	50	60	70	80	90
No. of pupils	2	3	2	2	1

a) How many pupils did the examination?
b) Find the modal mark.
c) Calculate the arithmetic mean.

(a)
2 + 3 + 2 + 2 + 1 = 10 pupils ✓ B_1

(b)
Highest number of pupils = 3 (frequency) ✓ M_1

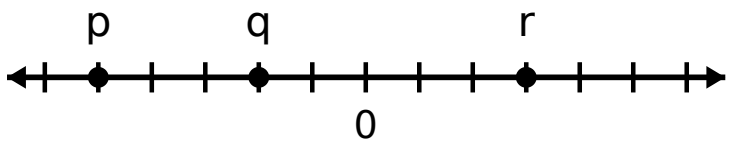
Modal mark = 60 ✓ A_1

(c)
(50 x 2) + (60 x 3) + (70 x 2) + (80 x 2) + (90 x 1) ✓ M_1

= 100 + 180 + 140 + 160 + 90 = 670

Mean = 670 ÷ 10 = 67 ✓ A_1

26. Study the number line below and answer the questions that follow.
a) Write down the integers represented by: *(1 mark each)*
i) p
ii) q
iii) r



b) What is the additive inverse of –4?

(a)
(i) p = -5 ✓ B_1
(ii) q = -2 ✓ B_1
(iii) r = 3 ✓ B_1

(b)
Additive inverse of -4 = +4 (4) ✓ B_1

27. Annet went to the market and bought the following items:
a) Calculate her total expenditure.
b) If she was given a discount of 5%, find the amount of money Annet paid.

(a)
Rice: 4 x 3,500 = 14,000 ✓ M_1
Beans: 1½ kg = 3 half-kilograms; 3 x 2,000 = 6,000 ✓ M_1
Gorillos: 8 x 500 = 4,000 ✓ M_1
Total = 14,000 + 6,000 + 4,000 = shs 24,000 ✓ A_1

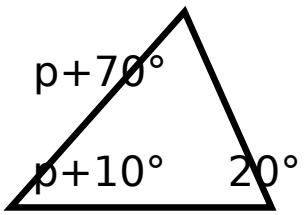
(b)
Discount = 5/100 x 24,000 = shs 1,200 ✓ M_1
Amount paid = 24,000 - 1,200 = shs 22,800 ✓ A_1

28. a) Given that x = 3 and y = 4, evaluate: $\sqrt{(x^2 + y^2)}$
b) Solve the equation: $\frac{a}{3} - 2 = 5$

(a)
$\sqrt{(x^2 + y^2)} = \sqrt{(3^2 + 4^2)} = \sqrt{(9 + 16)}$ ✓ M_1
$= \sqrt{25} = 5$ ✓ A_1

(b)
a/3 - 2 = 5
a/3 = 5 + 2 = 7 ✓ M_1
a = 7 x 3 ✓ M_1
a = 21 ✓ A_1

29. a) Given that 4m and (m + 40)° are complementary angles, find the value of m.
b) In the triangle below, find the value of p. *(3 marks)*



(a)
4m + (m + 40) = 90 (complementary angles add up to 90°) ✓ M_1
5m = 50, m = 10 ✓ A_1

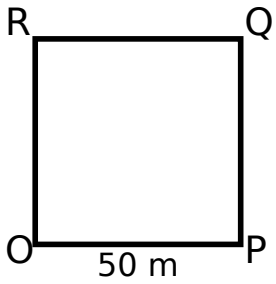
(b)
(p + 70) + (p + 10) + 20 = 180 (angles of a triangle) ✓ M_1
2p + 100 = 180 ✓ M_1
2p = 80, p = 40 ✓ A_1

30. The number of shirts, jeans and dresses in a shop are in the ratio 4 : 3 : 8 respectively. There are 75 more dresses than jeans.
a) Find the total number of clothes in the shop.
b) If each shirt costs shs 37,500, find the amount got from all the shirts.

(a)
Dresses - jeans = 8 - 3 = 5 parts ✓ M_1
5 parts = 75, so 1 part = 75 ÷ 5 = 15 ✓ M_1
Total parts = 4 + 3 + 8 = 15; clothes = 15 x 15 = 225 ✓ A_1

(b)
Shirts = 4 x 15 = 60 ✓ M_1
Amount = 60 x 37,500 = shs 2,250,000 ✓ A_1

31. Study the diagram below of OPQR, a square running track measuring 50 m on each side, and use it to answer the questions that follow.



a) Find the area occupied by the track.
b) If James runs around the track 2 times, what distance does he cover?

(a)
Area = Length x Length = 50 x 50 ✓ M_1
= 2,500 m^2 ✓ A_1

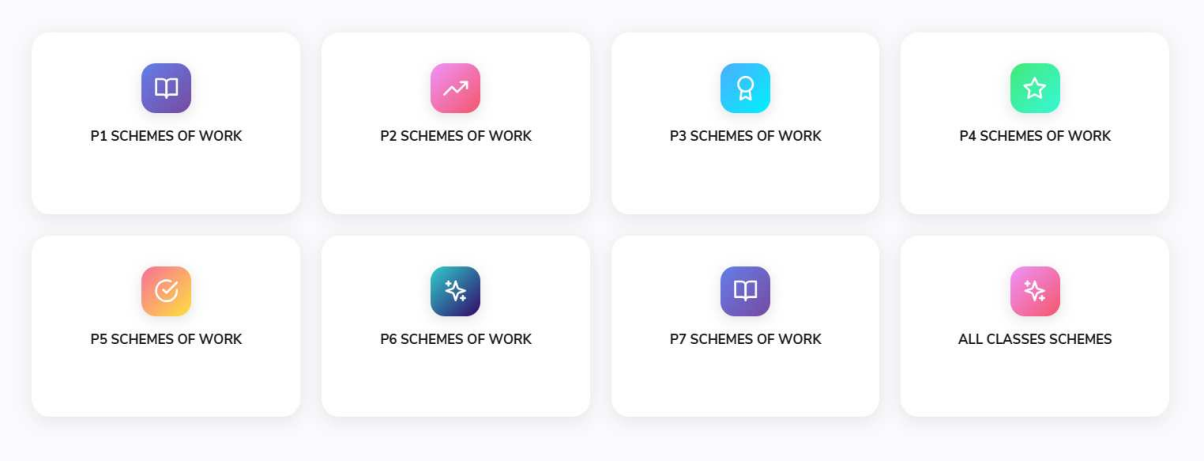
(b)
Perimeter = 4 x 50 = 200 m ✓ M_1
Distance = 2 x 200 ✓ M_1
= 400 m ✓ A_1

32. a) Using a ruler, a pencil and a pair of compasses only, construct a rectangle ABCD in which AB = 7 cm and BC = 4 cm. *(4 marks)*
b) Draw and measure the length of the diagonal AC.

(a)
AB = 7 cm drawn ✓ B_1
Perpendiculars at A and B constructed (arcs shown) ✓ B_1
AD = BC = 4 cm marked with compasses ✓ B_1
D and C joined to complete the rectangle ABCD ✓ B_1

(b)
Diagonal AC = 8.1 cm (accept 8.0 cm to 8.2 cm) ✓ B_1

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