

EXAMINATIONS COUNCIL OF SWAZILAND  
Swaziland Primary Certificate Examination

CANDIDATE  
NAME

CENTRE  
NUMBER

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CANDIDATE  
NUMBER

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**MATHEMATICS**

**212/02**

Paper 2

**November 2018**

**2 hours**

Candidates answer on the Question Paper

Additional Materials:      Tracing paper  
   Geometrical instruments

**READ THESE INSTRUCTIONS FIRST**

Write your Centre number, candidate number and name in the spaces.

Write in dark blue or black pen.

Write your answer to each question in the spaces provided.

You may use an HB pencil for any diagrams or graphs.

Do not use staples, paper clips, highlighters, glue or correction fluid.

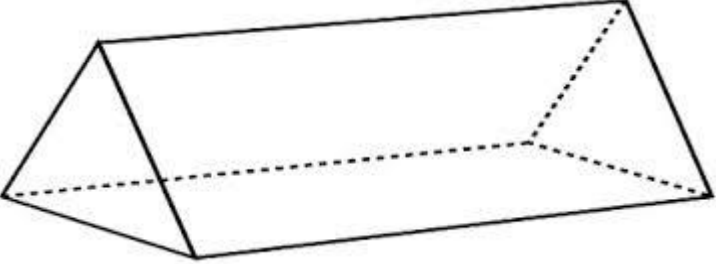
Answer **all** questions.

All working must be shown. It should be done on the same sheet as the rest of the answer.

The number of marks is given in brackets [ ] at the end of each question or part question.

The total number of marks for this paper is 100.

This document consists of **16** printed pages.

QUESTION COLUMN	ANSWER COLUMN
<p><b>1</b> (a) Write the value of 3 in the number 713 876.</p> <p>(b) Round off the number 40 950 to the nearest hundred.</p> <p>(c) Find the number that is 6 987 less than 824 521.</p>	<p>(a) .....[1]</p> <p>(b) .....[1]</p> <p>(c) .....[3]</p>
<p><b>2</b> The diagram below shows a certain solid shape.</p>  <p>(a) Name the solid shape.</p> <p>(b) How many faces does the solid shape have?</p>	<p>(a) .....[1]</p> <p>(b) .....[1]</p>

**3** Work out

**(a)**  $3\,425 \times 63$

**(a)** .....[3]

**(b)**  $8(6 + 9)$

**(b)** .....[2]

**(c)**  $6\,417 \div 31$

**(c)** .....[3]

**4** In a bag there are oranges, lemons and apples.  
In the bag there are 8 oranges, 10 lemons and 12  
apples.

**(a)** How many fruits are there in the bag?

**(a)** .....[1]

**(b)** What is the percentage of apples in the bag?

**(b)** ..... % [2]

**(c)** If this information was to be shown on a pie  
chart, what would be the sector angle for  
oranges?

**(c)** .....[2]

5 Mr Matsebula buys 3 bags of cement at E94 each.

How much change will he get if he pays with E300?

.....[4]

6 Sitakele's gets E23 000 as income from her business in February.

She doubles her income each month.

How much income will she get in April?

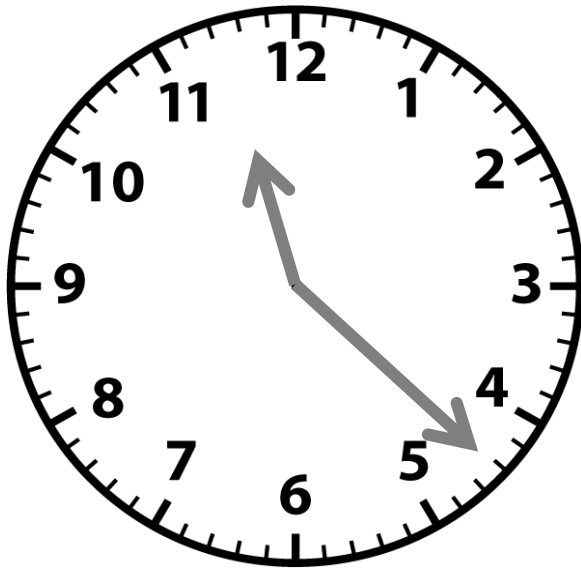
.....[3]

<p>7 (a) Simplify <math>\frac{18-2}{7-3}</math></p> <p>(b) Change 1 week into hours.</p>	<p>(a) .....[2]</p> <p>(b) .....[2]</p>
<p>8 On the first day of the second term, <math>\frac{5}{8}</math> of the learners in a certain Grade 7 class wore jerseys.</p> <p>(a) Calculate the fraction of the learners who <b>did not</b> wear their jerseys.</p> <p>(b) There were 40 learners in the class.</p> <p>How many learners were wearing their jerseys</p>	<p>(a).....[2]</p> <p>(b).....[3]</p>

- 9 (a) In the space below, draw triangle  $GHI$  with  $GH = 7$  cm,  $GI = 8$  cm and angle  $GHI = 95^\circ$ . The point  $G$  has been marked for you. [5]
- (b) Using your protractor measure and write down the size of angle  $HGI$ .  
..... [1]
- (c) On your diagram, bisect  $GI$ . [3]
- (d) Mark with  $X$ , the point where the bisector meets  $GI$ . [1]
- (e) Mark with  $Y$ , the point where the bisector meets  $GH$ . [1]
- (f) Without using a protractor, find the size of angle  $GYX$ .  
..... [3]

G .

**10 (a)** What is the time shown on the clock face below?



*(a)* .....[1]

**(b)** Change 8.27 pm into 24-hour time.

*(b)* .....[1]



(c) A school meeting started at 9. 15 am.

(i) Mrs Mahlalela arrived at this meeting 23 minutes earlier.

At what time did Mrs Mahlalela arrive at the meeting?

(c) (i).....[2]

(ii) The meeting stopped at 1.06 pm.

How long was the meeting?

(ii).....[3]

**11 (a)** In a long jump competition, the winning jump was 8 m. The second-place jump was 7.6 m.

How much longer was the winning jump than the second-place jump?

(a) .....[2]

**(b)** The length of a rectangular garden is 80 m. The width of the garden is 30 m.

Calculate the area of the garden.

(b) .....[3]

12 (a) The pattern below shows the number of steps taken by Banele each day as he was learning to walk for a period of a month.

<b>Day</b>	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>		30 <sup>th</sup>
<b>Number of steps</b>	2	5	8	11	14	?		899

(i) How many steps did Banele take in the 6<sup>th</sup> day?

..... [1]

(ii) In which day did Banele take 29 steps?

..... [2]

(iii) Write a rule for finding the number of steps taken by Banele in the month when given the day.

..... [2]

(b) The sum of the masses of Busi and Peggy is 144 kg.  
Find Peggy's mass if Busi is 69 kg?

..... [2]

**13** Miss Robin has 15 rows of spinach and 312 rows of cabbages in her farm.  
In each row of spinach there are 17 plants.  
In each row of cabbages there are 21 plants.

**(a)** Write a number sentence showing the total number of plants in the farm.

**(a)** .....[2]

**(b)** In preparing for selling her cabbages, Miss Robin packs the cabbages into bags.  
Each bag has 15 cabbages.

**(i)** Find the total number of cabbages in the farm.

**(b) (i)** .....[2]

**(ii)** How many bags of cabbage will she get?

**(ii)** .....[2]

**14** The volume of water in a dam is 372 492 litres.  
The dam loses water mainly due to irrigation and domestic use.

In each day, the dam loses 2 750 litres due to irrigation and 847 litres due to domestic use.

**(a)** How much water does the dam lose in one day?

**(a)** .....[3]

**(b)** What would be the volume of water in the dam after 5 days?

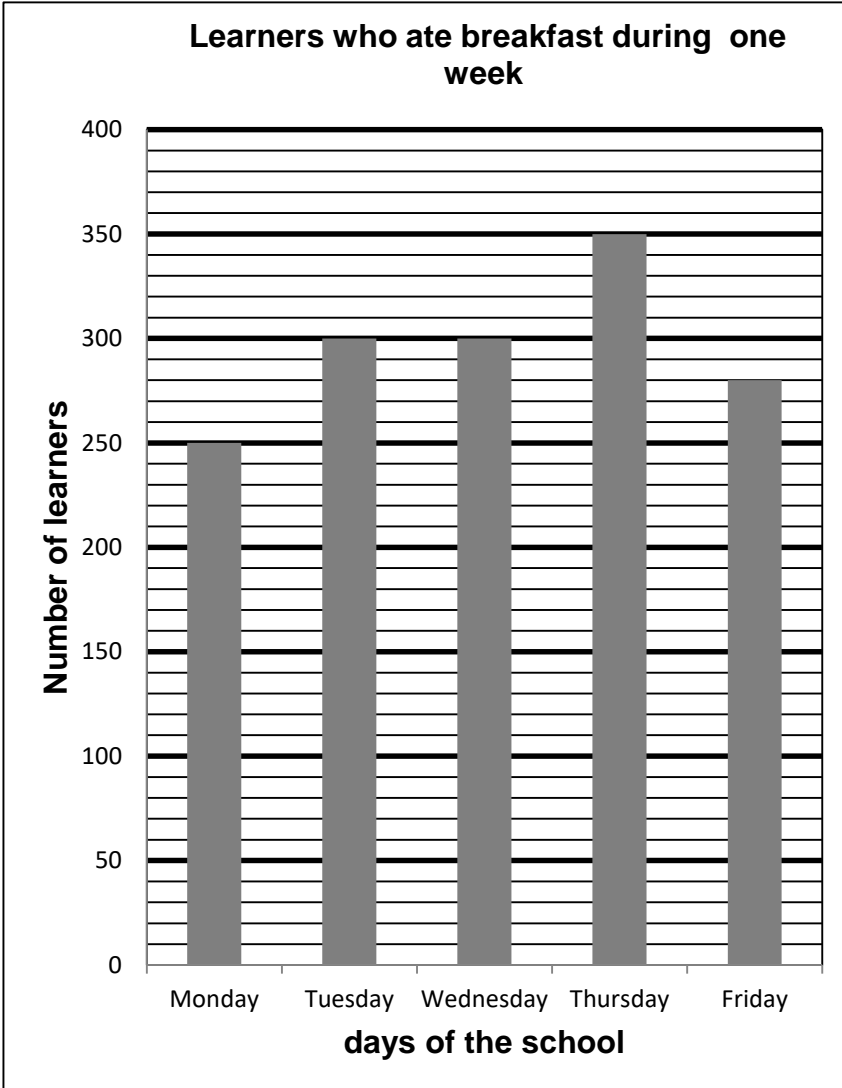
**(b)** .....[4]

**(c)** To save the water in the dam, the local community reduced the amount of water used for irrigation by 40% in each day.

How much water did the community save from irrigation in each day?

**(c)** .....[2]

**15 (a)** The bar graph below shows the number of learners who ate breakfast at the school on different days during one week. Use the graph to answer the questions that follow.



**(i)** How many learners ate breakfast in the school on Thursday?

**(a)(i)**.....[1]

**(ii)** On which days did the same number of learners eat breakfast in the school?

**(ii)**.....[1]

**(iii)** There are 600 learners in the school.

Write the number of learners who ate breakfast on Monday as a fraction in its simplest form.

**(iii)** .....[2]

**(b)** The following list shows the prices of chickens in Emalangeneni (E) in different shops at Tsenga town.

60, 55, 50, 45, 55, 48, 55

**(i)** How much does the most expensive chicken cost?

**(b)(i)** .....[1]

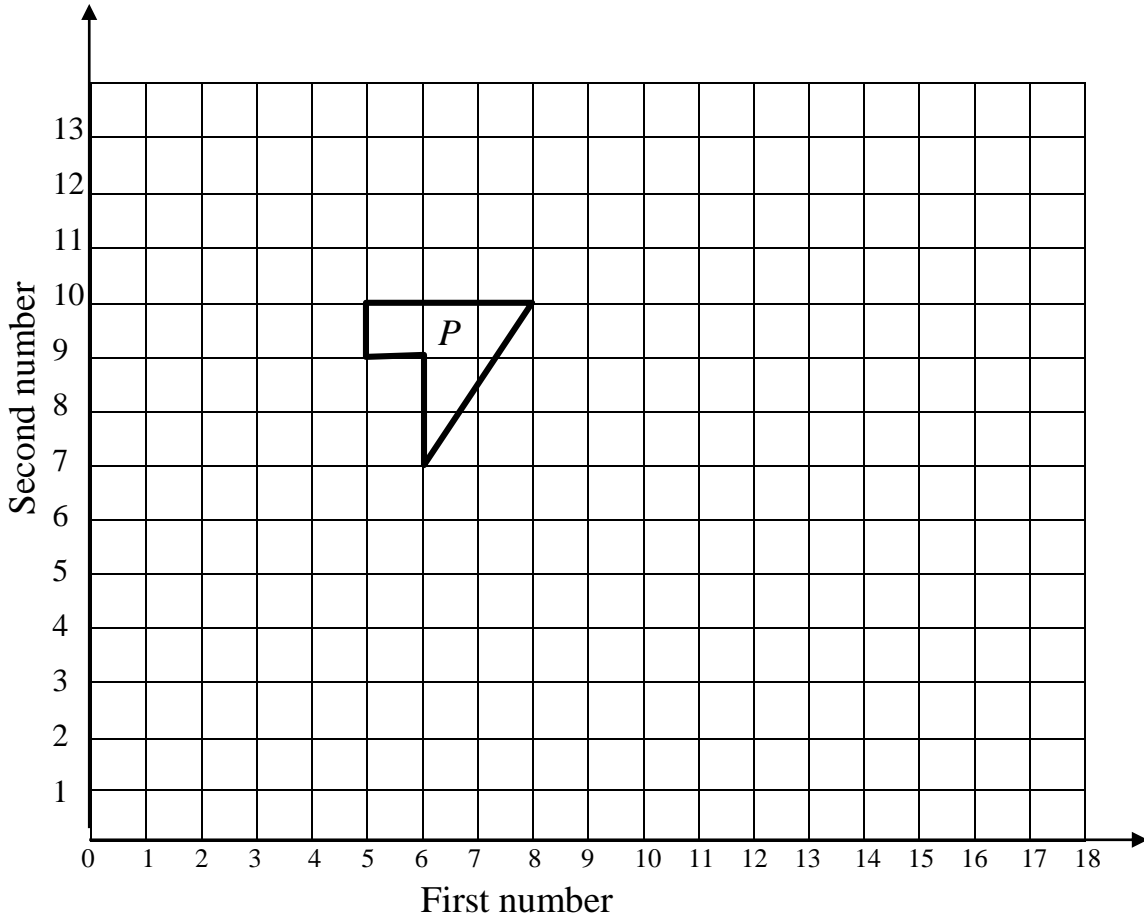
**(ii)** Find the modal price of chickens in the town.

**(iii)** Find the median price of the chickens in the town.

**(ii)** .....[1]

**(iii)** .....[2]

16 The grid below shows figure **P**.



- (a) What is the name of figure **P**? ..... [1]
- (b) Calculate the area of figure **P**. .....unit squares. [2]
- (c) On the same grid, plot the following points, (6, 2); (9, 2); (7, 5); (7, 3); (6, 3).  
Join the points in the given order to form figure **Q**. [3]
- (d) Name the movement from Figure **P** to figure **Q**.  
..... [1]
- (e) Slide figure **P** through 4 left 1 up on the same grid to form figure **R**. [2]

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