

GAUTENG DEPARTMENT OF EDUCATION PROVINCIAL EXAMINATION JUNE 2018 GRADE 6

MATHEMATICS

DISTRICT	 	
SCHOOL NAME		
CLASS (e.g. 6A)		
NAME AND SURNAME		

TIME: 11/2 hours

MARKS: 75

14 pages

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	GRADE 6	_

GAUTENG DEPARTMENT OF EDUCATION PROVINCIAL EXAMINATION

MATHEMATICS

TIME: 1½ hours MARKS: 75

INSTRUCTIONS

- 1. Read ALL the instructions carefully.
- 2. Question 1 consists of 10 multiple-choice questions. Circle the letter of the correct answer.
- 3. Answer questions 2 to 19 in the spaces or frames provided.
- 4. All calculations must be shown on the question paper and may not be done on separate rough paper.
- 5. Write neatly and legibly.
- 6. The use of a calculator is NOT allowed.

SECTION A

MULTIPLE-CHOICE QUESTIONS

- 1 Circle the letter of the correct answer.
 - 1.1 What is 17 499 rounded off to the nearest 1 000?
 - A 17 500
 - B 18 000
 - C 17 000
 - D 18 499 (1)
 - 1.2 Which number sentence is equivalent to 498 + 317?
 - A 500 + 317 + 2
 - B 500 + 300 +17
 - C 500 + 317 2
 - D 500 317 + 2 (1)
 - 1.3 Three hundred thousand and two can be written in number form as:
 - A 3 002
 - B 3 000 002
 - C 300 200
 - D 300 002 (1)
 - 1.4 Which option shows the correct mode and median for the data shown below?

- A Median = 10 and Mode = 12
- B Median = 12 and Mode = 10
- C Median = 21 and Mode = 10
- D Median = 21 and Mode = 12 (1)

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1.5	Which of the	following	numbers is	a prime	number?
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Α 1

В 2

С

9 21 (1)

1.6 What is the missing number in this number sentence?

Α 94

В 86

С 105

D 89 (1)

Which of the following numbers is closest to 2? 1.7

> Α 1,9

В 2,11

2,1 С

D 2,05 (1)

What is $26,39 \times 10$? 1.8

> 2,639 Α

> В 2 639

С 26,390

D 263,9 (1)

1.9 How many sides does a quadrilateral have?

> 4 Α

5 В

С 6

D (1) 8

1.10 What is the time being shown on the digital clock below?

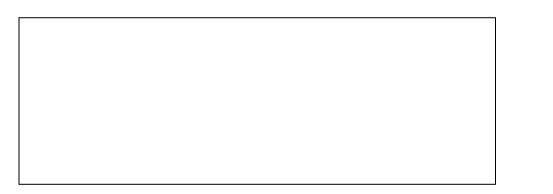
- Α 20 minutes to 11 in the evening
- 40 minutes past 10 in the morning В
- 20 minutes to 11 in the morning С
- 40 minutes to 11 in the evening D

(1)

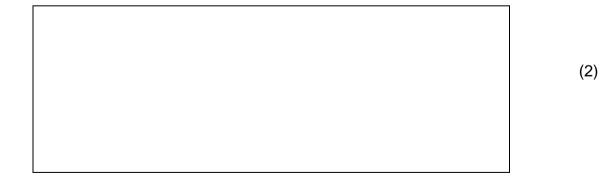
[10]

(2)

- Calculate the answers for questions 2.1 2.10. Use any method. Show your 2 steps.
 - 2.1 487 356 + 256 103



2.2 512 785 - 285 421

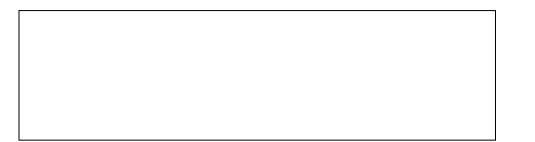


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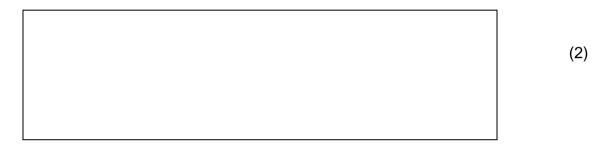
2.3	3 214 x 51	
		(2)
		(3
2.4	7 365 ÷ 24	
		(3
		, ,
2.5	$\frac{4}{15} + \frac{3}{5}$	
		,,,
		(2

(2)

2.6 $3\frac{1}{4} - 1\frac{3}{4}$	2.6	$3\frac{1}{4}$	-1	$\frac{3}{4}$
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2.7 What is $\frac{7}{10}$ of 450?



2.8 34,25 + 4,5



2.9 Write 0,95 as a percentage.

	(1)

2.10 $15 + (4 + 6) \times 10$



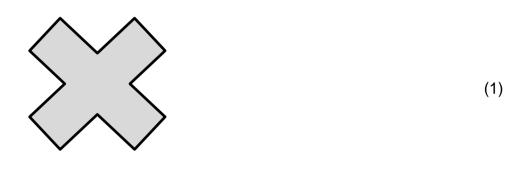
[21]

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	0:0:0=0	

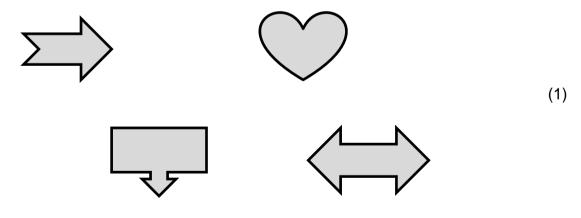
- 3 Fill in >;< or =.
 - 3.1 $\frac{2}{3}$ $\frac{7}{9}$ (1)
 - 3.2 0,25 $\frac{1}{4}$ (1)
 - 3.3 30% 0,03 (1)

[3]

- 4 Answer the questions about symmetry.
 - 4.1 How many lines of symmetry does the following shape have?



4.2 Circle the shape that has rotational symmetry.



[2]

5 Complete the following table based on the picture of the 3-D object provided:

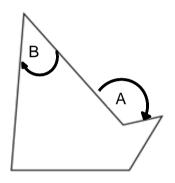
	[3]
Name of 3-D object	
Number of faces	
Number of vertices	

6 Study the shape below:

Name the 2-D shape.

6.1

7



5.2	What type of angle is being shown at "A" and "B"?	
	A	
	B	
7.1	Give 1 difference between a rectangle and a parallelogram.	
.2	Give 1 similarity between a rectangle and a parallelogram.	-

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Conv	vert the following measurements:	
8.1	2 000 millilitres = litres	(1)
8.2	14,2 Kilolitres = litres	(1)
8.3	$5\frac{3}{4}$ Hours = minutes	(1)
		[3]
Ansv	ver the questions involving measurement.	
9.1	Container A holds 2,8 ℓ of water. Container B holds 1 500 m ℓ of water.	
	How much more water does container A hold compared to B?	
		(2)
9.2	How many more years are there in 34 decades, than in 3 centuries?	
		(2)
		, ,
		[4]
	8.1 8.2 8.3 Ansv 9.1	 8.2 14,2 Kilolitres = litres 8.3 5 3/4 Hours = minutes Answer the questions involving measurement. 9.1 Container A holds 2,8 ℓ of water. Container B holds 1 500 mℓ of water. How much more water does container A hold compared to B?

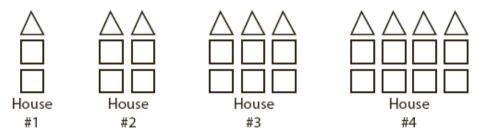
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MIX TITLE MIX TITLE	GRADE 6	''

Answer the following questions based on the table, showing the time in various African countries at a particular moment:

Country	Time at a particular moment
South Africa	09:30
Sudan	10:30
Ghana	07:30

	`	J aaan					•		
	(Ghana				07:3	60		
10.1	By how	many h	nours is	South A	Africa a	head of	Ghana?	•	
10.2	What w	rill the ti	me be ir	n Ghana	a when	it is 9 pr	n in Suc	dan?	
10.3	In which	h of the	se coun	tries wil	I the da	te chan	ge first?		
85; A = _	number ;; 69; the ques	61 ;	.;;	; 37	;;		owing s	equence	e?
Shape numbe	1	2	3	4	5	6	7	8	9
Shape	0		Δ	Δ	0		Δ	Δ	0
12.1	Draw th	ne next	shape ir	n this pa	ittern.				
12.2	What w	vill shap	e numbe	er 43 be	in this	pattern	?		

13 Answer the questions about the pattern below.



13.1 How many triangles will be used to build house number 5? (1)

13.2 How many squares will be needed to build house number 18? (1)

13.3 Which house number will be built using 6 triangles and 12 squares? (1)

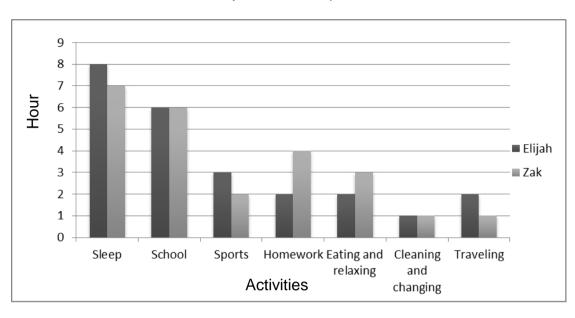
[3]

14 Complete the tally table below, by filling in the empty blocks.

Counting the number of Maths periods per week in Grades 6 and 7					
Grade	Tally	Frequency	[2]		
6	##T ##T II				
7		9			

15 Answer the questions about the graph below:

How Elijah and Zak spend their time



15.1 Who spends more time traveling?

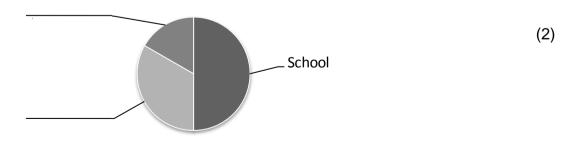
(1)

15.2 How much time does Elijah spend altogether on sleep, school and homework?

(1)

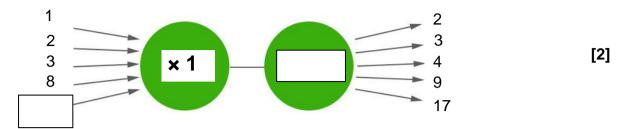
15.3 Zak draws a pie chart to compare the time he spends on school, homework and sports. Label the chart by filling in the correct activity.

Time spent by Zak

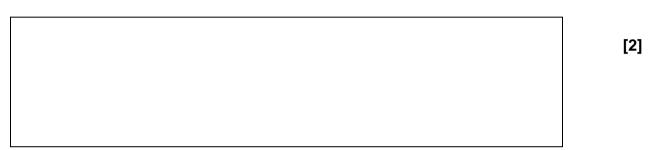


[4]

16 Complete the flow diagram by filling in the missing number and operation



17 A car is moving at a speed of 120 km per hour. The driver looks at his phone for 30 seconds to read a message. How far did the car travel while the driver was reading the message?



Tasmiya starts a business of selling ice lollies at school. It costs her R15 per box to buy the ice lollies. She sells the ice lollies for R5,50 each. There are 8 ice lollies in each box. If she sells all the ice lollies, how much profit will she make on each box? (Profit is the amount that is left after deducting your expenses.)



19 The sum of 2 whole numbers is 54. The difference between these 2 numbers is 12. What are the 2 numbers?



TOTAL: 75

[3]

[2]