GAUTENG PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

GAUTENG DEPARTMENT OF EDUCATION
PROVINCIAL EXAMINATION
NOVEMBER 2020
GRADE 6

MATHEMATICS

DISTRICT:

SCHOOL NAME:

NAME AND SURNAME:

CLASS (e.g. 6A):

TIME: 1 hour

MARKS: 50

12 pages

INSTRUCTIONS:

1. Read all the instructions carefully.

2. Question 1 consists of 20 multiple choice questions. Circle the letter of the correct answer.

3. Answer questions 2 to 5 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.

Question	1	2	3	4	5
Topic	Multiple Choice questions	Written Calculations	Problem Solving – Ratio and measurement context	Problem Solving – Decimals and Financial Context	Problem Solving- Area and Perimeter
Possible Mark	20	21	3	3	3
Learner Mark					
Total					

QUESTION 1

MULTIPLE CHOICE QUESTIONS

Circle the letter of the correct answer.

1.1   What is the next number in the number sequence?

15 ; 21 ; 27 ; 33 ; 39 ; _____

A   43

B   45

C   47

D   50   (1)

1.2   What is the value of the underlined digit 5 in the number below?

7<u>5</u> 987 432

A   5 Th

B   5 TTh

C   500 000

D   5 x 1 000 000   (1)

1.3   The simplest form of writing

(8 x 1 000 000) + (4 HTH) + (1 x 1) + (3 Th) + (5 x 10 000) + (200) is ….

A   8 453 201

B   8 451 301

C   8 435 201

D   8 543 201   (1)

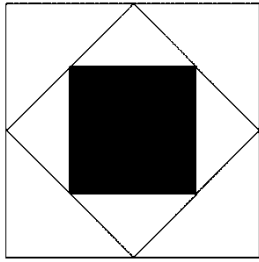1.4   Round 91 999 off to the nearest 1 000.

A   90 000

B   91 000

C   92 000

D   94 000   (1)

1.5   What fraction of the figure below is shaded?

A $\dfrac{1}{8}$

B $\dfrac{1}{2}$

C $\dfrac{1}{6}$

D $\dfrac{1}{4}$ (1)

1.6   If the circle is divided into twelfths, how many twelfths make a third of the circle?

A   3

B   4

C   6

D   12   (1)

1.7   The fraction that has the lowest value in the list below is…

$\dfrac{4}{6}$; $\dfrac{9}{10}$; $\dfrac{1}{2}$; $\dfrac{1}{3}$

A $\dfrac{9}{10}$

B $\dfrac{1}{2}$

C $\dfrac{1}{3}$

D $\dfrac{4}{6}$ (1)

1.8   What is the next number in the following sequence?

7,2 ; 6,9 ; 6,6 ; 6,3 ; _____

A   6

B   5,9

C   5,6

D   5   (1)

1.9   What is the value of 63, 91 × 10?

A   6, 391

B   63, 910

C   6 391

D   639,1   (1)

1.10   The shaded part of the diagram is $\dfrac{1}{2}$ of the whole. What decimal is represented by

the shaded part?

A   0,2

B   0,5

C   0,05

D   1,5   (1)

1.11   Which number sentence is equivalent to 15 × 22?

A   10 + 5 + 20 + 2

B   10 × 5 + 20 × 2

C   15 × 20 + 15 × 2

D   15 × 20 + 2   (1)

1.12   Alistair is a bicycle salesman. He earns R2 000 per month, plus R150 for each bicycle that he sells. For the month of October he was paid R3 200. How many bicycles did he sell that month?

     A   21

     B   22

     C   1

     D   8   (1)

1.13   How many dots will the next pattern have?
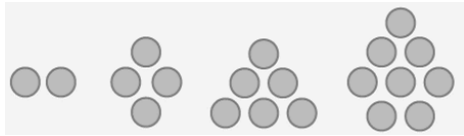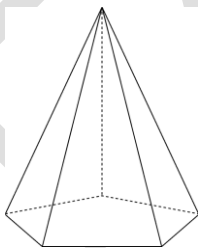

     A   10

     B   12

     C   9

     D   16   (1)

1.14   What operation will give you the next number in this pattern?

     95 ; 90 ; 80 ; 60 ; …

     A $\times 2$

     B $\div 2$

     C -20

     D -40 (1)

1.15   Identify the 3D object below.

     A   Pentagonal Prism

     B   Pentagonal Pyramid

     C   Hexagonal Prism

     D   Hexagonal Pyramid   (1)

1.16   How many edges does a triangular prism have?

A   5

B   4

C   6

D   9   (1)
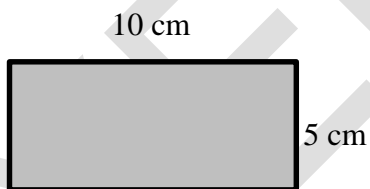
1.17   What 3D object can be made using this net?
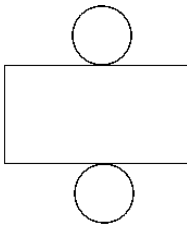
A   Cylinder
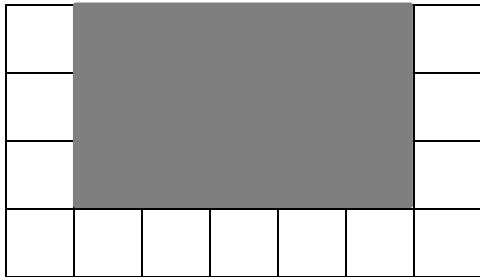
B   Cone

C   Rectangular prism

D   Sphere   (1)

1.18   What is the perimeter of the following rectangle, if the measurements are as indicated?

10 cm

5 cm

A   15 cm
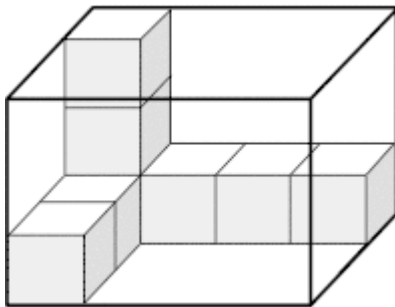
B   30 cm

C   50 cm

D   100 cm   (1)

1.19   What is the area of the carpet if the tiles are 1 square metre each?

A   28 square metres

B   22 square metres

C   15 square metres

D   16 square metres   (1)
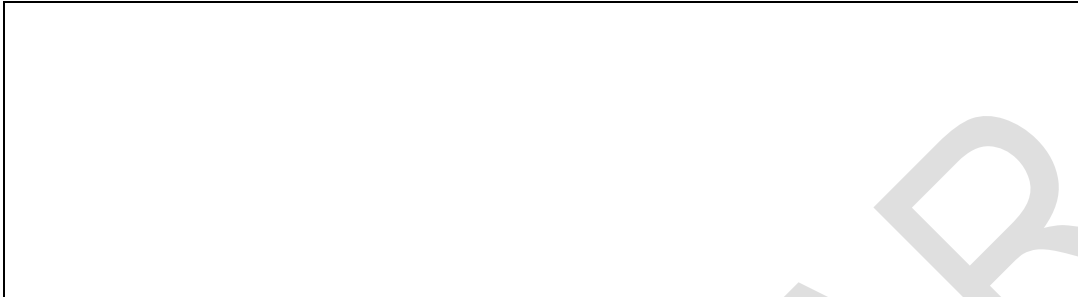
1.20   How many small cubes can fit into the big prism?

A   8

B   16

C   27

D   36   (1)

[20]

QUESTION 2
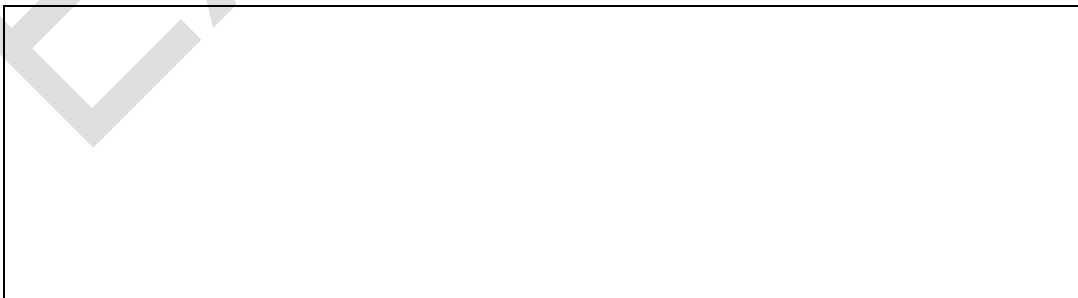
Calculate the answers for questions 2.1 – 2.10.

2.1   387 213 + 299 114

(2)

2.2   602 887 – 128 351
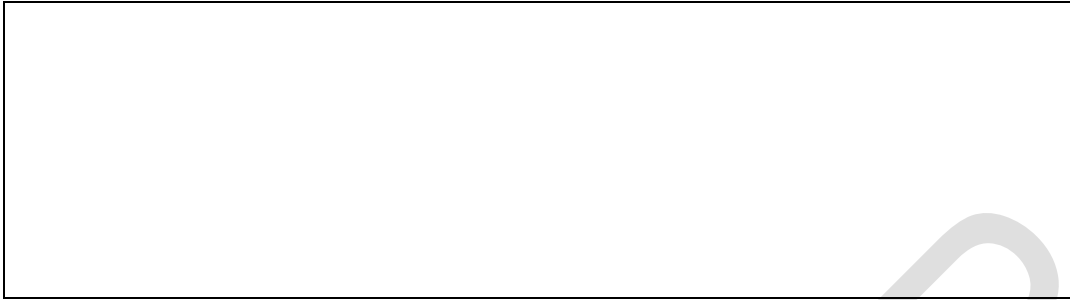
(2)

2.3   4 213 × 107

(3)

2.4   8 550 ÷ 250

(3)

2.5 $15 + 9 \times 2 - 9$

(2)

2.6 $\dfrac{2}{9} + \dfrac{5}{9}$

(1)

2.7 $\dfrac{1}{5} + \dfrac{5}{10}$

(2)

2.8 $6\dfrac{3}{7} + 2\dfrac{4}{7}$

(2)

2.9 $\dfrac{2}{3}$ of 90

(2)

2.10   15,09 + 20,1

(2)

[21]

QUESTION 3

I make a sauce that needs 25 ml of oil for every 75 ml of lemon juice. How much oil and how much lemon juice is needed to make 1ℓ of sauce?

Show your calculations.

[3]

[3]

QUESTION 4

4.   Use the price list below to answer the questions.

Price list at Kagiso Stationers	
Pencil:	R1,20 each
Pen:	R5,35 each
Suitcase:	R80,00 each

4.1   How much change will you get if you buy a pen and a pencil, and pay with a R10 note?

(2)

4.2   How much less will you pay for a suitcase if you get a 10% discount?

(1)

[3]

QUESTION 5

5.   The local clinic is a small building that is 16 m long and 10 m wide.

5.1   Calculate the perimeter of the clinic.

(1)

5.2   To accommodate additional patients, the width of the clinic is doubled. What is the new area of the clinic?

(2)

[3]

TOTAL: **[50]**

END