MARIS STELLA HIGH SCHOOL (PRIMARY)

PRIMARY 5 MATHEMATICS

TERM 3 WEIGHTED ASSESSMENT (SA1)

1 JULY 2020

26 questions

50 marks

Total Time: 1 h 15 min

NAME: _____ ( )

CLASS: PRIMARY 5 _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

MARKS OBTAINED FOR		
SECTION A	/ 25	Parent's Signature:
SECTIONS B & C	/ 25	_____
TOTAL	/ 50	Date: _____

SECTION A: 25 marks

Questions 1 to 5 carry 1 mark each. Questions 6 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

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1. What is the value of digit 8 in 2 189 723?

   (1) 80 ones
   (2) 80 tens
   (3) 80 hundreds
   (4) 80 thousands

2. Round 284 584 to the nearest thousand.

   (1) 280 000
   (2) 284 000
   (3) 284 600
   (4) 285 000

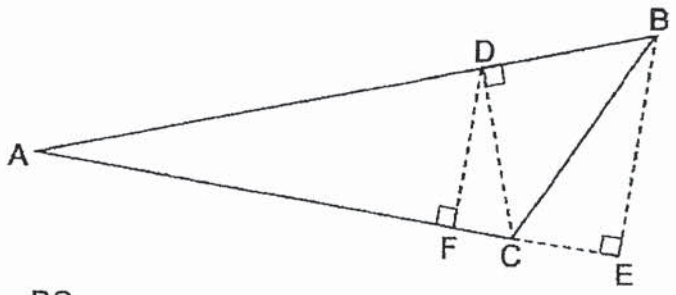
3. Which of the following could be the height of a basketball hoop at a basketball court?

   (1) 3 m
   (2) 30 cm
   (3) 30 m
   (4) 0.3 km

4. Find the value of $48 - (9 - 2 \times 3) + 3 \times 9$.

   (1) 54
   (2) 72
   (3) 270
   (4) 432

5. The base of triangle ABC is AB. What is its height?



(1) BC
(2) BE
(3) CD
(4) DF

6. A container had $\frac{3}{7}$ kg of sugar. Mrs Phua used $\frac{1}{3}$ of it to bake a cake. How much sugar had Mrs Phua left?

(1) $\frac{1}{7}$ kg
(2) $\frac{2}{7}$ kg
(3) $\frac{2}{21}$ kg
(4) $\frac{7}{21}$ kg

7. $\frac{1}{3}$ of a number is 12. What is $\frac{1}{2}$ of this number?

(1) 36
(2) 18
(3) 8
(4) 4

8. Randy made green paint by mixing blue paint and yellow paint in the ratio 4 : 5. He used 1000 mℓ of yellow paint. How much green paint did Randy made?

(1) 800 mℓ
(2) 1250 mℓ
(3) 1800 mℓ
(4) 2250 mℓ

9. A rectangular tank measuring 30 cm by 12 cm by 16 cm is completely filled with water. How much water must be poured out from the tank so that the height of water becomes 6 cm?

(1) 2160 cm^3
(2) 3600 cm^3
(3) 5760 cm^3
(4) 7920 cm^3

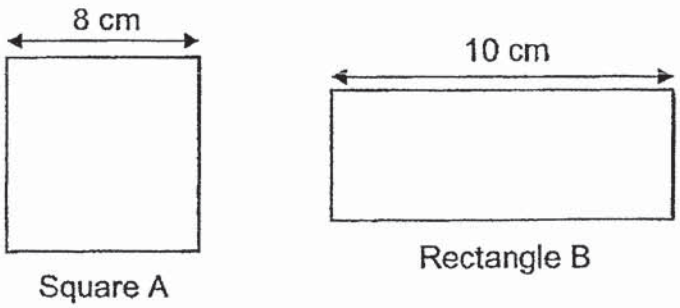
10. Amy, Brenda and Cathy donated a sum of money in the ratio of 8 : 5 : 1. Amy donated $420 more than Cathy. How much did the 3 girls donate altogether?

(1) $840
(2) $1260
(3) $1470
(4) $1960

11. A group of students played ball games, hide-and-seek or badminton during recess. $\frac{1}{2}$ of them played ball games. $\frac{1}{5}$ of the remaining students played hide-and-seek and 12 students played badminton. How many students played ball games?

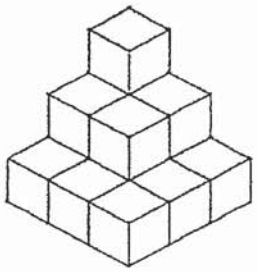
(1) 15
(2) 20
(3) 30
(4) 40

12. Square A and Rectangle B have the same perimeter. What is the area of Rectangle B?



(1) 80 cm²
(2) 64 cm²
(3) 60 cm²
(4) 32 cm²

13. What is the least number of unit cubes that must be added to the figure below to form a cube?



(1) 27
(2) 14
(3) 13
(4) 9

14. The ratio of the length of a rectangular plot of land to its width is 3 : 2. The perimeter of the rectangular plot of land is 900 m. Find its width.

(1) 180 m
(2) 270 m
(3) 360 m
(4) 540 m

15. Dave has 3 times as many marbles as Elijah. After Dave gave away 166 marbles and Elijah bought 108 marbles, they both had the same number of marbles. How many marbles did Elijah have in the end?

(1) 137

(2) 245

(3) 274

(4) 411

SECTION B: 16 marks

Questions 16 and 23 carry 2 mark each. Show your workings clearly in the space provided for each question and write your answers in the blanks provided. For questions which require units, give your answers in the units stated.

16. (a) Write seven million, four hundred and eighty-nine thousand and fifty-three in numerals.

(b) What is the value of $11\dot{7}\ 000 \div 300$?

Answer: (a) _____

(b) _____

2

17. Express $2\frac{5}{9}$ as a decimal. Correct your answer to 2 decimal places.

Answer: _____

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18. Mr Ong had 250 bottles of sanitiser in his shop. Each bottle weighed $\frac{2}{11}$ kg. A customer ~~sold~~ bought 30 bottles of sanitiser from him. Find the total mass of the unsold bottles of sanitizer Mr Ong had in his shop.

Answer: _____ kg

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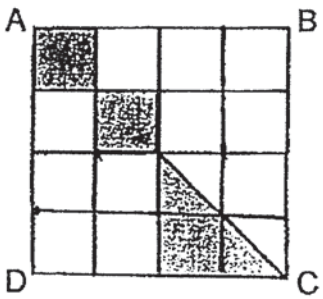
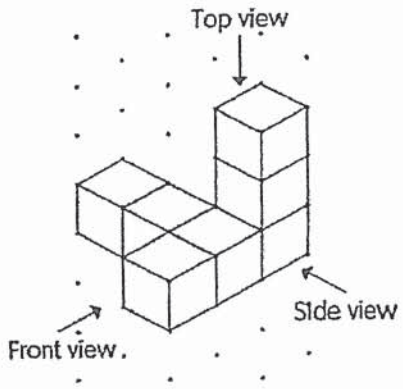
19. ABCD is a square. It is made up of 4 small squares, 2 big squares and 2 triangles. What fraction of Square ABCD is shaded? Give your answer in its simplest form.



Answer: _____

6

20. 7 unit cubes are used to form the solid shown below.



Draw the top view and side view of the solid on the grid paper provided.

Top View	Side View

21. Basket X had 125 fruits and Basket Y had 293 fruits at first. After an equal number of fruits were removed from both baskets, Basket Y had 3 times as many fruits as Basket X. How many fruits were there in Basket X in the end?

Answer: _____

4

22. The ratio of Andrew's score to Samuel's score in a mathematics test was 3 : 5. Jonathan scored 36 marks more than Andrew and 12 marks more than Samuel. What was Andrew's score?

Answer: _____

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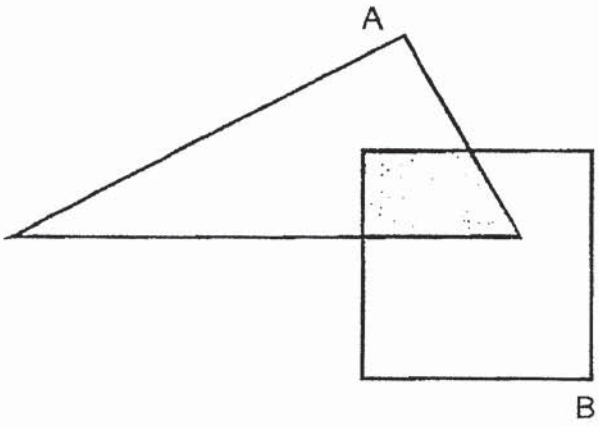
23. Triangle A overlaps Square B as shown in the figure below. The ratio of the area of Triangle A to the area of the shaded portion of Triangle A to the area of Square B is 7 : 2 : 5. The area of Triangle A is 329 m^2. Find the area of the unshaded portion of Square B.



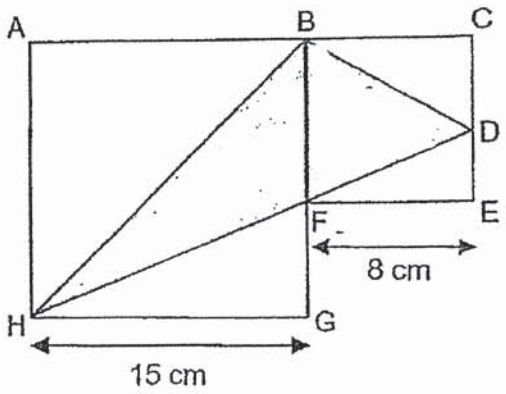
Answer: _____ m^2

4

SECTION C: 9 marks

Questions 24 to 26 carry 3 marks each. For each of the questions below, show your number statements, workings and final statements clearly.

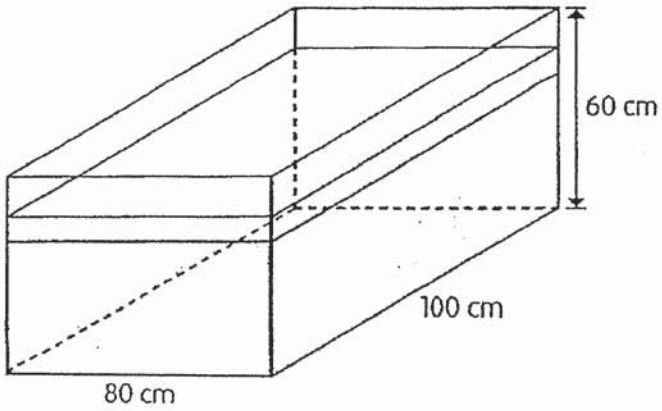
24. In the figure, ABGH and BCEF are squares and BHD is a triangle. FE = 8 cm and HG = 15 cm. Find the area of triangle BHD.



Answer: _____

3

25. A rectangular tank 80 cm by 100 cm by 60 cm is filled with water up to $\frac{2}{3}$ of its height. How much more water has to be added so that the water level is 12 cm from the top? Leave your answer in litres.



Answer: _____

_____

3

26. Daniel had a sum of money at first. He spent \$80 of his money on a watch and $\frac{1}{3}$ of his remaining money on stationery. In the end, he was left with $\frac{1}{4}$ of the amount of money he had at first. How much money did Daniel have at first?

Answer: _____

End of Paper
Please check your work carefully

3

ANSWER KEY

YEAR : 2020
LEVEL : PRIMARY 5
SCHOOL : MARIS STELLA
SUBJECT : MATHEMATICS
TERM : WEIGHTED ASSESSMENT (SA1)

SECTION A

Q1	4	Q2	4	Q3	1	Q4	2	Q5	3
Q6	2	Q7	2	Q8	3	Q9	2	Q10	1
Q11	1	Q12	3	Q13	3	Q14	1	Q15	2

SECTION B

Q16 a) 7 4 8 9 0 5 3

b) 1170 ÷ 3 = 390

Q17. $\frac{5}{9}$ = 5 ÷ 9 = 0.555

0.555~0.56

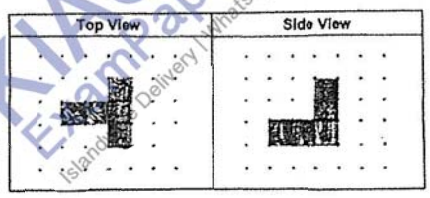
0.56 + 2 = 2.56

Q18. $\frac{500}{11} - \frac{60}{11} = \frac{440}{11}$

= 40kg

Q19. $\frac{2}{16} + \frac{2}{16} = \frac{1}{4}$

Q20.



Q21. Diff = 293-125=168

1u = 168 ÷ 2 = 84

Q22. Diff = 36-12 = 24

1u = 24 ÷ 2 =12

Andrew = 12 x 3=36

Q23. 1u =329÷7=47m2
left in B = 5u-2u=3u
unshaded =47m2 x 3 =141m2

Q24. $\Delta \frac{1}{2}$ x B x H
$\frac{1}{2}$ x 4 x 15 = 60cm2
$\Delta \frac{1}{2}$ x B xH
$= \frac{1}{2}$ x 8 x 8 = 32cm2

ΔBHD = 60cm2 + 32cm2 = 92 cm2

Q25. Volume of tank = 80 x 100 x 60 = 480000cm3
$\frac{3}{2}$ of tank height = 80 x 100 x 40 = 320000
Required volume left = 80 x 100 x 12 = 96000cm3 .
How much left in tank – 480000 – 320000 = 160000
How much more – 160000 – 96000 = 64000cm3 =64L

Q26. 2u = $\frac{1}{4}$ of total
$\frac{3}{4}$ = 2u x 3 = 6u
5u = $80
1u = $80 ÷ 5 =$16
4u = $16 x 8 = $128