FIRST SEMESTRAL EXAMINATION
2016

PRIMARY 5

MATHEMATICS

PAPER 1

DURATION: 50 MINUTES

18 May 2016.

YOU ARE **NOT** ALLOWED TO USE A CALCULATOR.

PAPER 1 (BOOKLET A)

Questions **1** to **10** carry 1 mark each. Questions **11** 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 oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(20 marks)

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1 Which one of the following is eight million, two hundred and seven thousand and fourteen in figures?

(1) 8 200 714

(2) 8 207 014

(3) 8 207 040

(4) 8 270 714

2 What is the value of $2 \times (300 - 288) \div 4$?

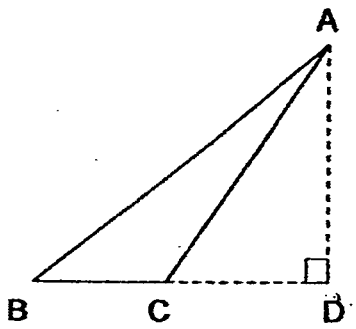
(1) 598

(2) 456

(3) 78

(4) 6

5 Given that the height of triangle ABC is AD, find its corresponding base.



(1) AB

(2) AC

(3) BC

(4) BD

6 Which one of the following is the equivalent ratio of 8 : 3?

(1) 16 : 12

(2) 24 : 24

(3) 40 : 15

(4) 64 : 9

3 What is the value of $\frac{4}{5} \div 8$?

(1) $\frac{1}{7}$

(2) $\frac{1}{10}$

(3) $\frac{2}{5}$

(4) $\frac{32}{5}$

4 Observe the pattern below.

$29.4 \div 2 = 14.7$

$29.4 \div \square = 0.147$

What is the missing number in the box?

(1) 20

(2) 200

(3) 2000

(4) 20 000

7 Find the product of 5 and $\frac{7}{11}$

(1) $\frac{7}{55}$

(2) $\frac{35}{55}$

(3) $3\frac{2}{11}$

(4) $7\frac{6}{7}$

8 Find the sum of 20 tenths and 5 hundredths.

(1) 0.205

(2) 2.05

(3) 20.5

(4) 205.0

9 Express $\frac{1}{4}$ as a decimal.

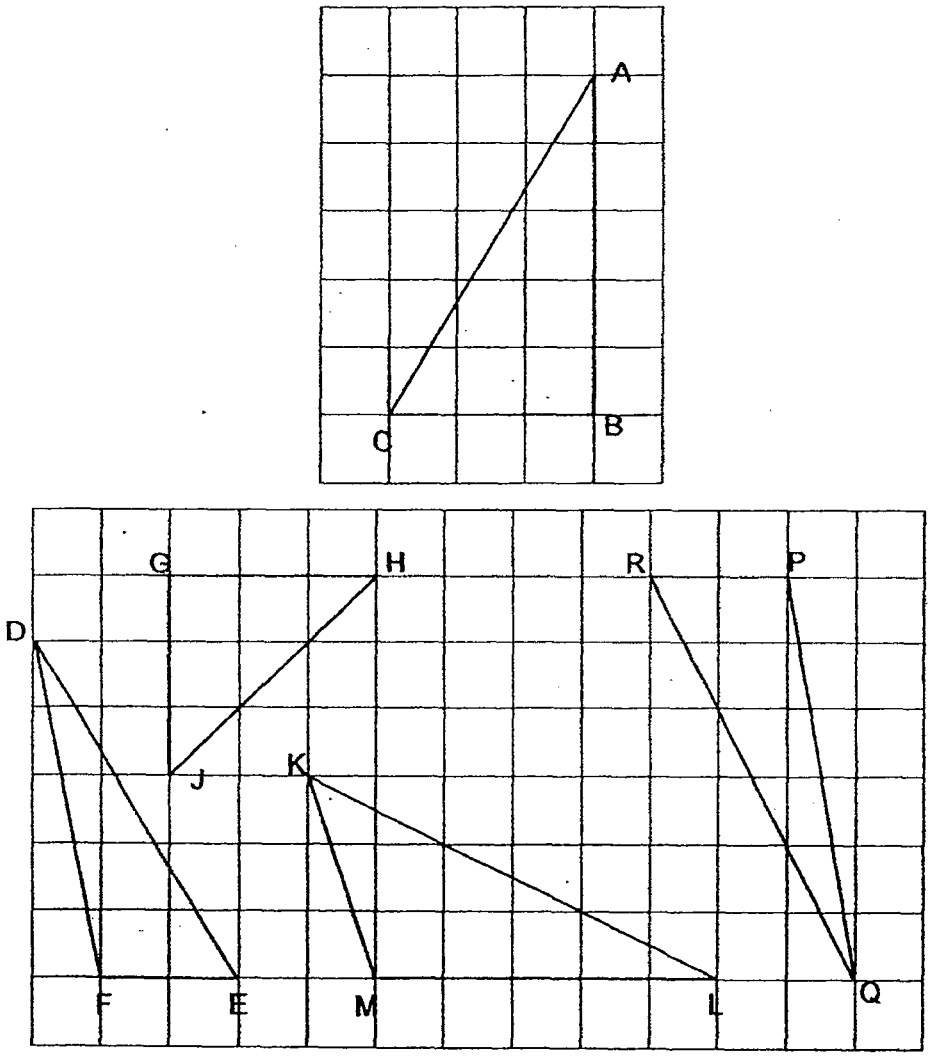
(1) 0.2

(2) 0.25

(3) 0.4

(4) 0.416

10 Triangles ABC, DEF, GHJ, KLM and PQR are drawn on the square grid below. Which triangle has the same area as triangle ABC?



(1) Triangle DEF

(2) Triangle GHJ

(3) Triangle KLM

(4) Triangle PQR

11 Andy spent 3000 seconds to complete all the 32 questions. He spent a total of 840 seconds on the first 12 questions. He then spent an equal amount of time on each of the remaining questions. How much time did he spend on each of the remaining questions?

(1) 72 seconds

(2) 108 seconds

(3) 113 seconds

(4) 118 seconds

12 $\frac{1}{3}$ of a rod is painted green. $\frac{1}{4}$ of the remaining rod is then painted yellow. What fraction of the rod is painted yellow?

(1) $\frac{1}{12}$

(2) $\frac{1}{6}$

(3) $\frac{1}{4}$

(4) $\frac{3}{4}$

13 Five children share $\frac{3}{4}$ of a pizza equally. What fraction of the pizza does each child get?

(1) $\frac{3}{20}$

(2) $\frac{4}{15}$

(3) $\frac{15}{4}$

(4) $\frac{20}{3}$

14 The length of a rope is 9.2 m. A string is 2.25 m shorter than the rope. Find the length of the string.

(1) 6.95 m

(2) 7.05 m

(3) 7.95 m

(4) 11.45 m

15 A repeated number pattern is formed using the digits 1, 2, 3 and 4. The first 13 digits are shown below. What is the sum of the first 87 digits?

1	2	3	4	1	2	3	4	1	2	3	4	1 ...
1st	2nd											13th

(1) 210

(2) 211

(3) 213

(4) 216

Name: _____ ( ) Class: Pr 5 ( )

PAPER 1 (BOOKLET B)

Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

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16 Round off 7 009 529 to the nearest thousand.

Ans: _____

---

17 Find the value of 703 × 89.

Ans: _____

---

18 What is the missing number in the box below?

745 000 ÷ 500 = 10 × ☐

Ans: _____

---

19 Find the value of 4350 ÷ (58 - 28).

Ans: _____

---

20 Find the product of $\frac{5}{8}$ and $\frac{4}{9}$.

Give your answer as a fraction in its simplest form.

_____

---

21 Find the value of $\frac{6}{7} \div 9$.

Give your answer as a fraction in its simplest form.

Ans: _____

---

22 Find the value of 5.02×9.

Give your answer as a decimal.

Ans: _____

---

23 Express 3.08 kg in grams.

Ans: _____ g

---

24 Round off 6.855 to 2 decimal places.

Ans: _____

---

25 Daniel bought $\frac{7}{8}$ kg of sugar. He used $\frac{2}{3}$ kg to bake cakes. How much sugar had he left?

Ans: _____ kg

Questions **26** to **30** carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

---

26 Find the value of $175 + 25 \times 2$.

Ans: _____

---

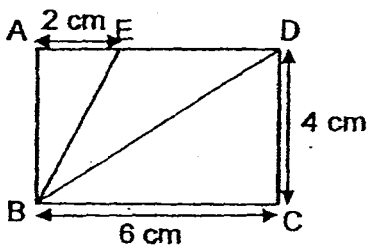
27 What is the missing number in the box below?

$26.07 \div \square = 5.214 \div 2$

Ans: _____

---

28 In the figure below, ABCD is a rectangle and BC = 6 cm, CD = 4 cm and AE = 2 cm. Find the area of triangle BDE.



Ans: _____ cm^2

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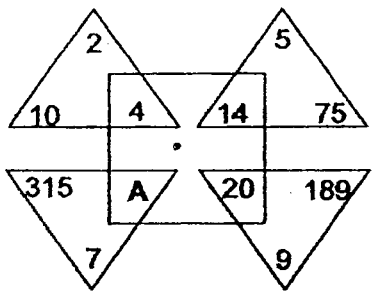
29 The total mass of 30 identical cans of baked beans is 12.45 kg. Find the mass of 2 such cans of baked beans.

Ans: _____ kg

---

30 Study the number arrangement carefully. What is the value of A?



Ans: _____

END OF PAPER

FIRST SEMESTRAL EXAMINATION
2016

PRIMARY 5

MATHEMATICS

PAPER 2

DURATION: 1 HOUR 40 MINUTES

18 May 2016.

YOU ARE ALLOWED TO USE A CALCULATOR.

PAPER 2

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

---

1 Find the difference between 6048 and 365 by first rounding off each number to the nearest hundred.

Ans: _____

---

2 Peter ran a distance of 2 km in 10 minutes. At this rate, what was the total distance he ran in 1 hour?

Ans: _____ km

---

3 John completed a race in 125 seconds. He took 35 seconds less than Daniel to complete the race. How many minutes did Daniel take to complete the race? Give your answer correct to 2 decimal places.

Ans: _____ min

---

4 Jeremy bought some paint to paint his house. He used $18\frac{3}{5}$ l of paint for the living room, $8\frac{1}{2}$ l of paint for the study room and $10\frac{3}{4}$ l of paint for the master bedroom. How many litres of paint did he use altogether? Give your answer as a mixed number in its simplest form.

Ans: _____

---

5 Mr Lim had $6\frac{1}{2}$ m of wire. Ali had 3 times as much wire as Mr Lim. How much wire did they have altogether?

Ans: _____ m

For questions **6** to **18**, show your working clearly in the space provided for each question and write your answers in the spaces provided.
The number of marks available is shown in brackets [ ] at the end of each question or part-question.

(50 marks)

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6 The table below shows a plant's height on the first day of each month from January to May.

Date	Height (cm)
1st January	8.3
1st February	9.5
1st March	10.0
1st April	10.7
1st May	11.4

(a) What was the height of the plant on 1st February? Give your answer to the nearest cm.

(b) What was the increase in the plant's height from 1st April to 1st May?

Ans: (a) _____ [1]

(b) _____ [2]

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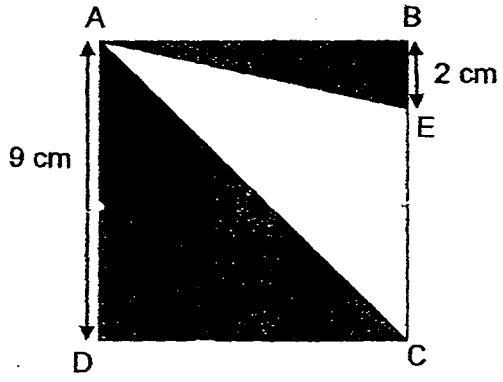
7 The figure below shows square ABCD. BE = 2 cm and AD = 9 cm.



(a) Given that the base of triangle ACE is EC, what is the height of triangle ACE in cm?

(b) What is the total area of the shaded parts in the figure?

Ans: (a) _____ [1]

(b) _____ [2]

---

8 A bookstore sells either one pen for $2 or in packs of 5 for $7. Wendy wants to buy exactly 33 pens with the smallest amount of money. How much does she have to pay for the 33 pens?

Ans: _____ [3]

---

9 The length of a rectangular table top is $\frac{21}{5}$ m. Its breadth is $\frac{5}{7}$ of its length. $\frac{1}{4}$ of the table top is painted. What is the area of the table top that is painted? Give your answer as a mixed number in its simplest form.

Ans: _____ [3]

---

10 There were 30 questions in a quiz. Andy answered all the questions and scored 101 marks. For each correct answer, 5 marks were given. For each wrong answer, 2 marks were deducted. How many questions did Andy answer correctly?

Ans: _____

---

11 The total cost of a basket and 15 identical boxes of chocolates is $61. The total cost of the same basket and 7 such boxes of chocolates is $37.

(a) How much does each box of chocolate cost?

(b) How much does the basket cost?

Ans: (a) _____ [2]

(b) _____ [2]

12 There are 210 spectators at the stadium. $\frac{2}{7}$ of the spectators are male. $\frac{2}{3}$ of the male spectators are men and $\frac{1}{5}$ of the female spectators are girls. How many men and women are there at the stadium altogether?

Ans: _____ [4]

13 Sarah spent $72 on 24 identical notebooks and 6 identical pens. One pen cost $0.50 less than a notebook.

(a) What was the cost of one notebook?

(b) What was the greatest number of such pens that Mary could buy if she had $57?

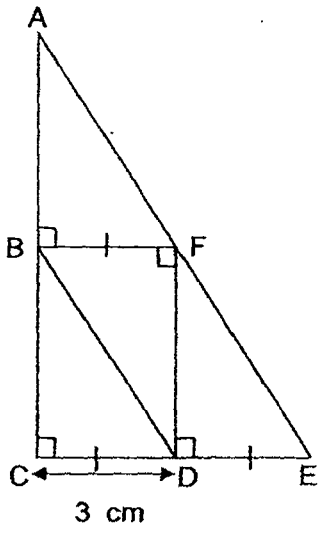
Ans: (a) _____ [3]

(b) _____ [1]

14 Valerie spent $2743 on a laptop, a camera and a mobile phone. The laptop cost 4 times as much as the camera. The camera cost $95 more than the mobile phone. Find the total amount of money that Valerie spent on the mobile phone and the camera.

Ans: _____ [4]

15 Triangle ACE below is made up of 4 identical right-angled triangles, ABF, BCD, FBD and FDE. BF = CD = DE = 3 cm. The perimeter of triangle ACE is 24 cm. AC is 2 cm shorter than AE. What is the area of triangle ACE?



Ans: _____ [4]

16 Amelia, Betsy, Charlie and Danny received a total of $360. Charlie received $\frac{1}{4}$ of the total amount of money. Amelia received $\frac{1}{8}$ of the total amount of money received by Betsy and Danny. Betsy received $\frac{3}{5}$ as much money as Danny. How much did Betsy receive?

Ans: _____ [5]

17 Andy, Benjamin and Caleb had a total of 698 coins at first. After a week, the number of Andy's coins became 3 times the number of coins he had at first. The number of Benjamin's coins decreased by 138. Caleb had half as many coins as he had at first. In the end, the three boys had the same number of coins.

(a) How many coins did Caleb have at first?

(b) What was the total number of coins that the three boys had in the end?

Ans: (a) _____ [3]

(b) _____ [2]

18 A marker cost \$1.50. A stapler cost \$15.50 more than the marker. Barry spent \$340 on such markers and staplers. He bought twice as many markers as staplers.

(a) How many staplers did Barry buy?

(b) How much money did Barry spend on the markers?

Ans: (a) _____ [3]

(b) _____ [2]

END OF PAPER

EXAM PAPER 2016
LEVEL : PRIMARY 5
SCHOOL : NANYANG PRIMARY SCHOOL
SUBJECT : MATHEMATICS
TERM : SA1(PAPER1)

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

16. 7010000

17. 62567

18. 745000÷500
=745000÷5÷100
=149000÷100
= 1490

ans:149

19. 4350÷30=145
ans:145

20. $\frac{5}{8}\times\frac{4}{9}=\frac{20}{72}$
$=\frac{10}{36}$
$=\frac{5}{18}$

21. $\frac{6}{7}\div 9=\frac{6}{7}\times\frac{1}{9}=\frac{6}{63}=\frac{2}{21}$

ans:$\frac{2}{21}$

22. 45.18

23. 3080g

24. 6.86

25. $\frac{7}{8}\ \text{kg} - \frac{2}{3}\text{kg} = \frac{21}{24} - \frac{16}{24} = \frac{5}{24}$

26. 175+50==225
ans:225

27. 10

28. 6−2=4
$4\times4\times\frac{1}{2}=8$

ans:$8cm^2$

29. 12.45÷30=0.415
0.415×2=0.830

ans:0.830kg

30. 10÷2=5
5−1=4
75÷5=15
15−1=14
189÷9=21
21−1=20
315÷7=45
45−1=44

ans:44

EXAM PAPER 2016
LEVEL : PRIMARY 5
SCHOOL : NANYANG PRIMARY SCHOOL
SUBJECT : MATHEMATICS
TERM : SA1(PAPER 2)

1. 6048-365≈6000-400=5600

ans:5600

2. 2km → 10min
12km → 60min

ans: 12km

3. 125 + 35=160

160 seconds ≈2.67 160÷60=2.666
≈2.67 cans

ans:2.67 min

4. $10\frac{3}{4}+8\frac{1}{2}+18\frac{3}{5}=37\frac{17}{20}$

ans:$37\frac{17}{20}$

5. $6\frac{1}{2}\times4=26$

ans:26m

6. a)9.5≈10

b)11.4-10.7=0.7

a)ans:10cm

b)ans:0.7cm

7. 9×9=81
9−2=7
$7\times9\times\frac{1}{2}=31.5$
81-31.5=49.5cm^2

a) ans:9cm
b) ans:49.5cm^2

8. \$7×6=\$42
5×6=30
33−30=3
\$42+\$2+\$2+\$2=\$48

ans:\$48

9.
$\frac{21}{5}\times\frac{5}{7}=3$
$\frac{21}{5}\times3=12\frac{3}{5}$
$12\frac{3}{5}\div4=3\frac{3}{20}$m

ans:$3\frac{3}{20}m^2$

10.
Assume all are correct

5×30=150
150−101=49
5+2=7
49÷7=7

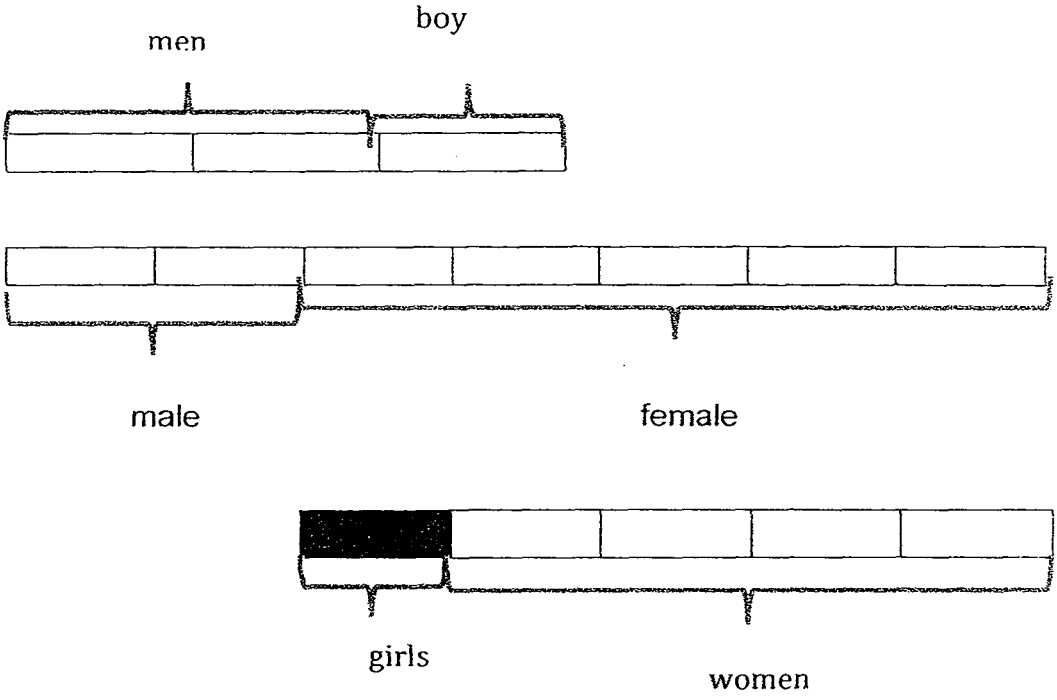
30−7=23

Check:7×2=14
23×5=115
115−14=101
ans:23

11. 1B+15C→\$61
1B+7C→\$37
8C→\$61−\$37=\$24
1C→\$24÷8=\$3
7C→\$24-\$3=\$21
\$37-\$21=\$16

a) ans:\$3
b) ans:\$16

12.

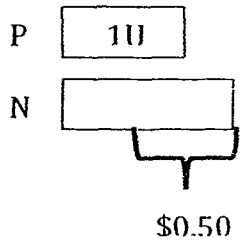


7u→260
1u→210÷7=30
2u→30×2=60
3p→60
1p→60÷3=20

men→20×2=40
women→4u→30×4=120
120+40=160

ans:160

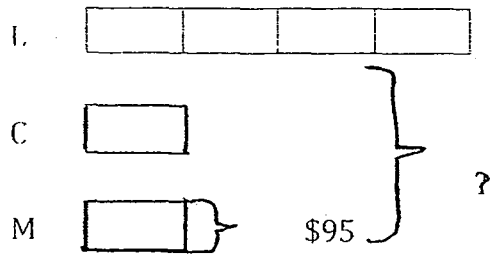
13.



$0.50×24=$12
$72−$12=$60
24+6=30
30u→$60
1u→$60÷30=$2
$2+0.50=$2.50
$57÷$2=2R1

a)$2.50
b)28

14. 6u→$2743+$95=$2838
1u→$2838÷6=$473
$473×2=$946



$946−$95=$85

ans:$851

15.
3+3=6
24−6=18
18−2=16
16÷4=4
4×2=8
$8\times6\times\frac{1}{2}=24cm^2$
ans:$24cm^2$

16. B→3u
D→5u
A→1u
C→3u

12u→$360

1u→$360÷12=$30

3u→$30×3=$90

ans:$90

17. 10U→698−138=560
1U→560÷10=56
6U→56×6=336
9U→56×9=504

a)336
b)504

18. $1.50+$15.50=$17
$1.50+1.50+$17=$20

$340÷$20=17(sets of2mIS)
17×$2=34
34×$1.50=$51
a)ans:17 b)ans:$51

END