

**END-OF-YEAR EXAMINATION 2016
PRIMARY 3
MATHEMATICS**

(BOOKLET A)

Total Time

Sections A to C: 1 hour 45 minutes

INSTRUCTIONS TO CANDIDATES

**Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.**

Name: _____ ()

Class: Primary 3. _____

Date: 26 October 2016



Section A

Questions 1 to 4 carry 1 mark each.

Questions 5 to 16 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. (28 marks)

1 $8\,425 = \underline{\hspace{2cm}} + 400 + 20 + 5$

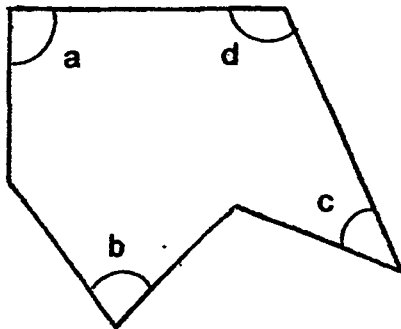
What is the missing number in the blank?

- (1) 8
- (2) 80
- (3) 800
- (4) 8 000

2 $6\text{ km } 2\text{ m} = \underline{\hspace{2cm}}\text{ m}$

- (1) 62
- (2) 602
- (3) 6 002
- (4) 6 200

3 Which one of the angles is a right angle?



- (1) $\angle a$
- (2) $\angle b$
- (3) $\angle c$
- (4) $\angle d$

4 How many whole numbers between 15 and 35 can be divided exactly by 6?

(1) 5

(2) 2

(3) 3

(4) 4

5 + 7 = 28 R 2

What is the missing number?

(1) 190

(2) 194

(3) 196

(4) 198

6 Which one of the following fractions is not equivalent to $\frac{1}{4}$?

(1) $\frac{5}{20}$

(2) $\frac{2}{8}$

(3) $\frac{3}{12}$

(4) $\frac{4}{8}$

7 5 201, 5 001, 4 801, _____, 4 401

In the number pattern, what is the missing number?

(1) 4 301

(2) 4 601

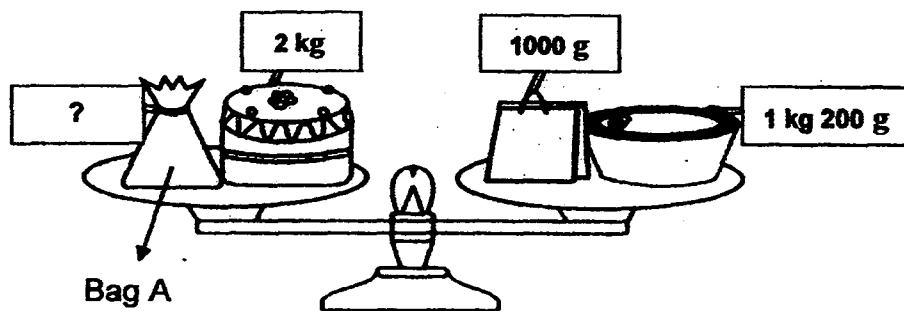
(3) 4 701

(4) 4 901

8 What is the total value of the digits '5' in 5 705?

- (1) 4 995
- (2) 5 005
- (3) 5 700
- (4) 5 710

9



Farah placed four objects on a weighing scale. What was the mass of Bag A?

- (1) 200 g
- (2) 1 000 g
- (3) 1 200 g
- (4) 2 200 g

10 Xiaoling placed 570 beads equally into 6 bags.

In each bag, there were 48 blue beads and the rest were red beads.

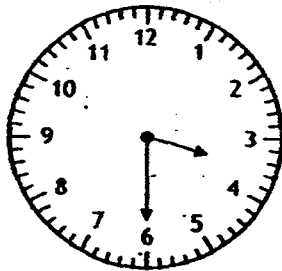
How many red beads were there in each bag?

- (1) 47
- (2) 95
- (3) 143
- (4) 288

- 11** Bala has 35 more stamps than Jiahui. Mabel has 55 fewer stamps than Bala. Robert has 20 fewer stamps than Bala. Who has the **least** number of stamps?

- (1) Bala
- (2) Jiahui
- (3) Mabel
- (4) Robert

- 12** In the afternoon, Chloe noticed that the clock in her classroom as shown was 20 minutes slow. What was the actual time?



- (1) 3.10 p.m.
 - (2) 3.50 p.m.
 - (3) 4.10 p.m.
 - (4) 4.50 p.m.
- 13** The length of a square table is 8 cm. What is its perimeter?
- (1) 16 cm
 - (2) 24 cm
 - (3) 32 cm
 - (4) 64 cm

- 14 Candice ate $\frac{2}{3}$ of a pie and Jun Ming ate $\frac{1}{12}$ of the same pie.

What fraction of the pie was left?

(1) $\frac{1}{5}$

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

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

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

- 15 What is the cost of 9 ten-cent stamps and 4 fifty-cent stamps?

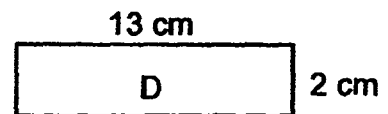
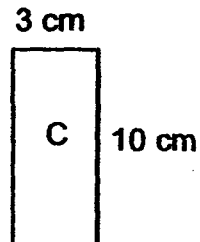
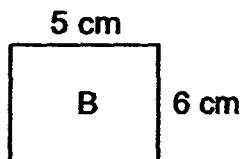
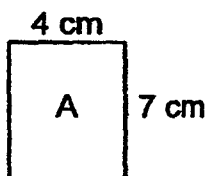
(1) \$0.90

(2) \$2.00

(3) \$2.90

(4) \$4.90

- 16 Which of the following rectangles below have a similar area?



- (1) A and B
(2) B and C
(3) B and D
(4) C and D

**END-OF-YEAR EXAMINATION 2016
PRIMARY 3
MATHEMATICS**

(BOOKLET B)

Total Time

Sections A to C: 1 hour 45 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

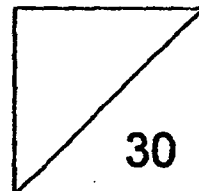
Follow all instructions carefully.

Answer all questions.

Name: _____ ()

Class: Primary 3. _____

Date: 26 October 2016



Section B

Questions 17 to 22 carry 1 mark each.

Questions 23 to 34 carry 2 marks each.

Write your answers in the spaces provided.

For questions which require units, give your answers in the units stated. (30 marks)

- 17 Write 6 thousands and 40 tens in numerals.

Ans: _____

- 18 Arrange the following fractions in order, beginning with the greatest.

$$\frac{1}{4}$$

$$\frac{1}{7}$$

$$\frac{1}{2}$$

$$\frac{1}{9}$$

Ans: _____, _____, _____, _____

- 19 Express 2 075 g in kilograms and grams.

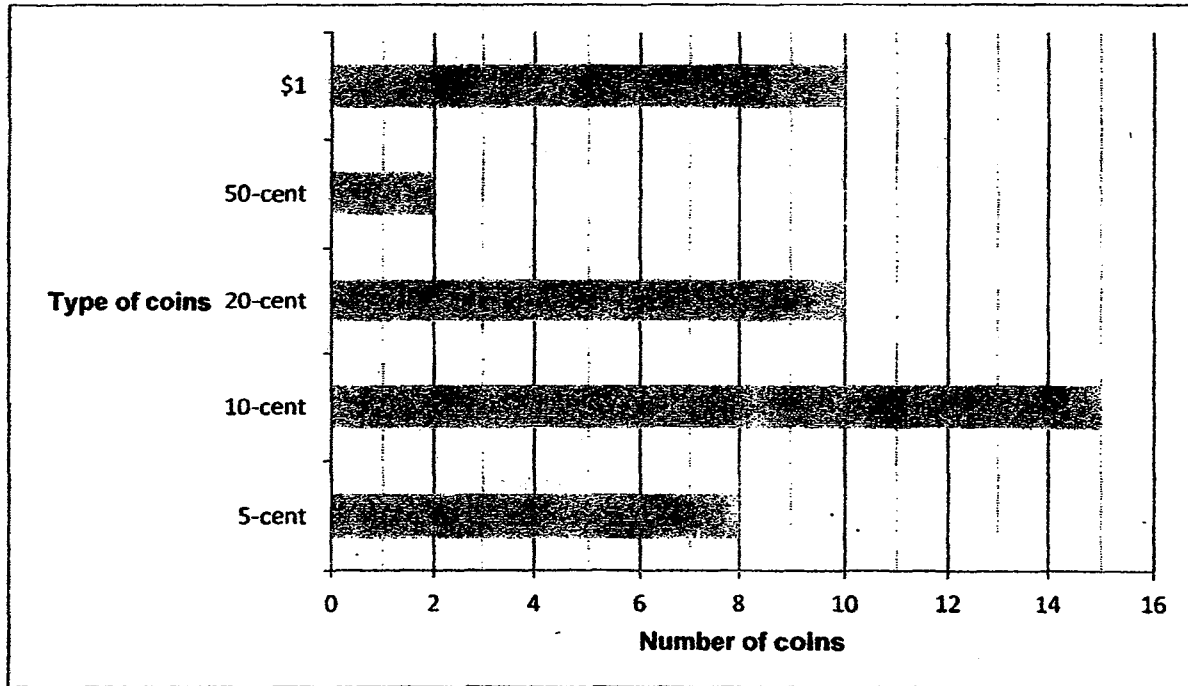
Ans: _____ kg _____ g

- 20 I am the smallest 4-digit odd number with the digits 3, 6, 7 and 0.

What number am I? (Use each digit only once)

Ans: _____

The bar graph below shows the number of different coins Raju has saved over a week. Use the graph to answer questions 21-23.



21 Raju has the same number of these two types of coins. Which are they?

Ans: _____ and _____

22 Which type of coin is 4 times the number of 50-cent coins?

Ans: _____

23 What is the total amount of money Raju has saved?

Ans: \$ _____

(Go on to the next page)

- 24 What is the missing number below?

$$\begin{array}{r} 6 \text{ l } 20 \text{ ml} \\ - 2 \text{ l } 100 \text{ ml} \\ \hline \end{array}$$

Ans: _____ l _____ ml

25 $\triangle + \bigcirc + \square = 102$

$\triangle + \square = 89$

What is the value of $\bigcirc$?

Ans: _____

26 $15 \times 6 = \square + 2$

What is the missing number in the box?

Ans: _____

- 27 Mrs Jones travels from her house to the market and then back to her house daily. The distance between her house and the market is 7 km. What is the total distance she travels in a week?

Ans: _____ km

(Go on to the next page)

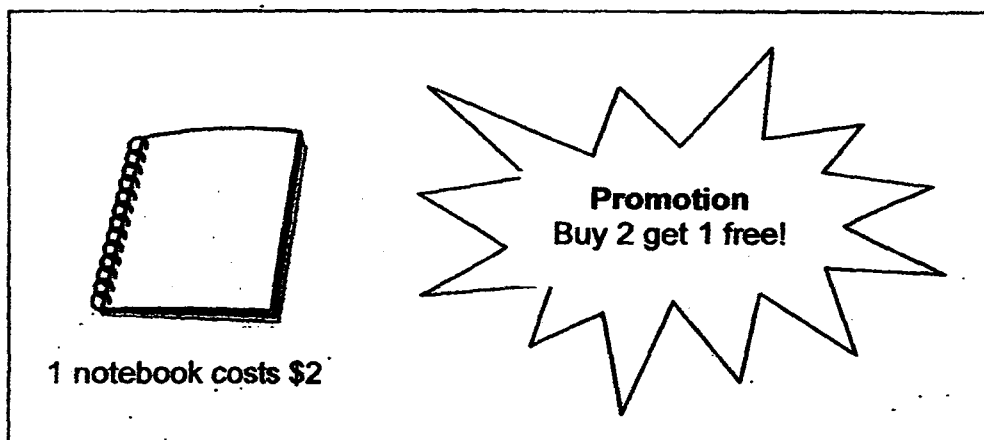
28 $\frac{3}{10} + \boxed{?} = \frac{1}{2}$

What is the missing number?

Give your answer in the simplest form.

Ans: _____

- 29 The poster below shows a promotion at a school bookshop.

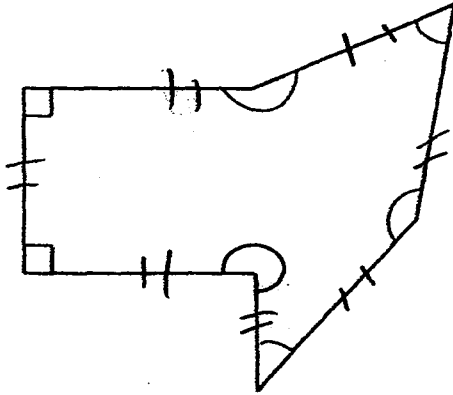


Lynette paid \$8 for some notebooks.

How many notebooks did she get altogether?

Ans: _____

- 30 Study the figure below carefully.



- (a) How many sides does this figure have?
 (b) How many angles in the figure are greater than a right angle?

Ans: (a) _____

(b) _____

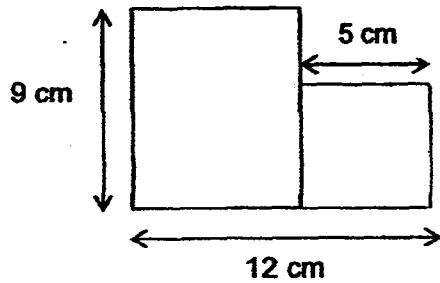
- 31 Zara bought some sugar to bake for a party. She used $\frac{1}{2}$ of the sugar to make cookies, $\frac{1}{12}$ of it to make brownies and $\frac{1}{4}$ of it to make cupcakes.
 What fraction of sugar did Zara use altogether?

Give your answer in the simplest form.

Ans: _____

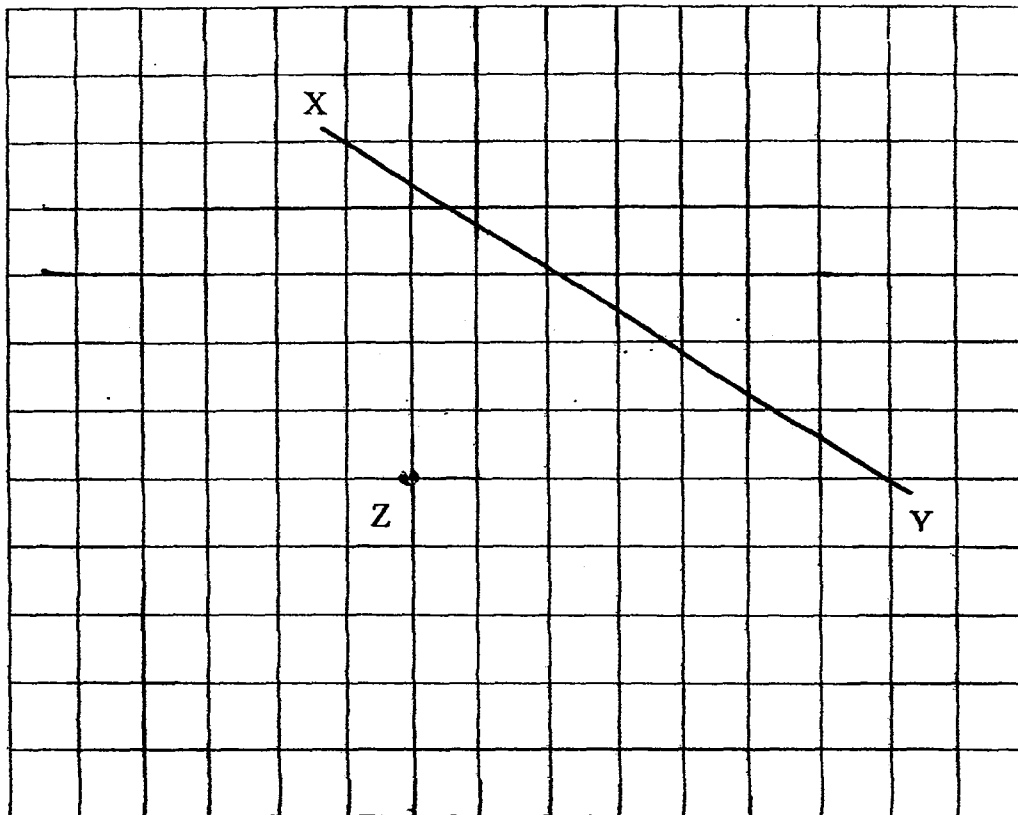
(Go on to the next page)

- 32 The figure is made up of a rectangle and a square. Find the area of the figure.



Ans: _____ cm^2

- 33 Draw a line through Point Z that is parallel to Line XY shown below.



(Go on to the next page)

- 34 The signboard below is placed on the door of Moonlight Cafe.

Opening Hours: 11 a.m. – 9 p.m. daily
Closed on Sunday

The cafe is open for _____ hours a week.

Ans: _____ h

Go on to Booklet C

(Go on to the next page)

END-OF-YEAR EXAMINATION 2016
PRIMARY 3
MATHEMATICS

(BOOKLET C)

Total Time

Sections A to C: 1 hour 45 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.

Name: _____ ()

Class: Primary 3. _____

Date: 26 October 2016

Booklet A	/ 28
Booklet B	/ 30
Booklet C	/ 22
TOTAL	/ 80

Parent's Signature: _____

This booklet consists of 7 printed pages including this page.

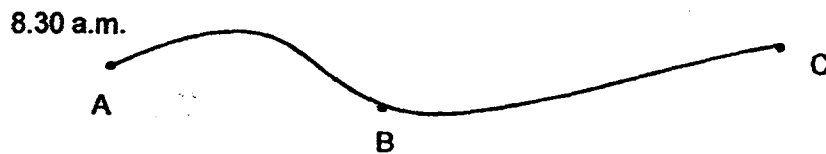
Section C

For questions 35 to 40, show your working clearly and write your answers in the space provided. The number of marks available is shown in brackets [] at the end of each question or part-question. (22 marks)

35 At 8.30 a.m., Siti boarded a bus at Town A.

It took her 2 h 20 min to reach Town C.

She took the same amount of time to travel back from Town C to Town A.



(a) What time did she reach Town C?

(b) If Siti spent 3 h at Town C, what time did she reach Town A?

Ans: (a) _____ [1]

(b) _____ [2]

- 36** The mass of a container filled with some pebbles is 4 kg 750 g.
The empty container has a mass of 800 g.
How much lighter is the empty container than the pebbles?
(Give your answer in kilograms and grams)

Ans: _____ [3]

- 37 Ben had three times as much money as Colin. After Ben spent \$110 and Colin spent \$30, they had the same amount of money left.
- (a) How much did Colin have at first?
- (b) How much had each of them left in the end?

Ans: (a) _____ [3]

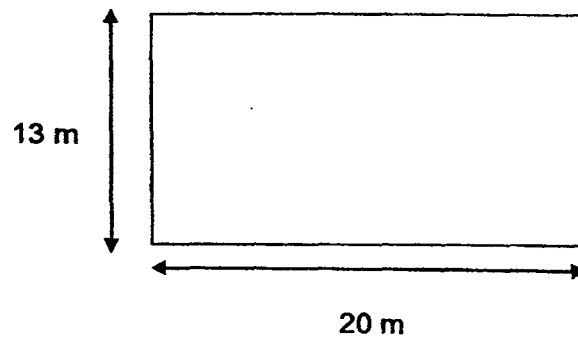
(b) _____ [1]

- 38** Mrs Tan had some sweets. She bought another 28 sweets. She gave 48 sweets each to her 3 children. In the end, she had 239 sweets left. How many sweets did Mrs Tan have at first?

Ans: _____ [4]

- 39** Grace put a fence around a rectangular plot of land with dimensions as shown below.
The cost of the fencing was \$5 per metre.

- (a) What was the total length of fencing needed?
(b) How much did she pay to put the fence around her land?



Ans: (a) _____ [2]

(b) _____ [2]

- 40** Farmer Lee packed a total of 146 apples and pears into 20 bags.
Each bag contained either apples or pears.
The apples were packed in bags of 6 and the pears were packed in bags of 8.
How many bags of apples were there?

Ans: _____ [4]

End of Paper

ANSWER KEY

YEAR : 2016
 LEVEL : PRIMARY 3
 SCHOOL : METHODIST GIRLS'
 SUBJECT : MATHEMATICS
 TERM : SA2

Booklet A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
4	3	1	3	4	4	2	2
Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16
1	1	3	2	3	2	3	2

Booklet B

- Q17 6400
 Q18 $\frac{1}{2}, \frac{1}{4}, \frac{1}{7}, \frac{1}{9}$
 Q19 2 kg 75 g
 Q20 3067
 Q21 \$1 and 20-cent
 Q22 5-cent
 Q23 \$14.90
 Q24 3 l 920 ml
 Q25 $102 - 89 \Rightarrow \underline{13}$
 Q26 $15 \times 6 = \underline{180} \div 2$
 Q27 $7 \times 2 \rightarrow 14$
 $14 \times 7 \Rightarrow \underline{98 \text{ km}}$

Q28 $\frac{1}{5}$

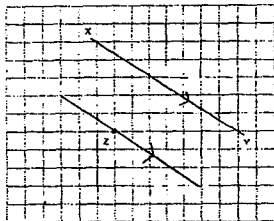
Q29 $2 \times 2 = 4$
 $8 \div 4 = 2$
 $3 + 3 \Rightarrow \underline{6 \text{ notebooks}}$

Q30 (a) 7
 (b) 3

Q31 $\frac{5}{6}$

Q32 $12 - 5 = 7$
 $9 \times 7 = 63$
 $5 \times 5 = 25$
 $63 + 25 \Rightarrow \underline{88 \text{ cm}^2}$

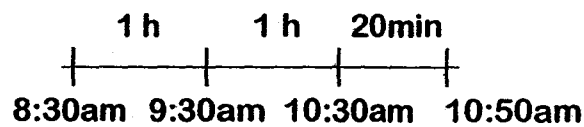
Q33



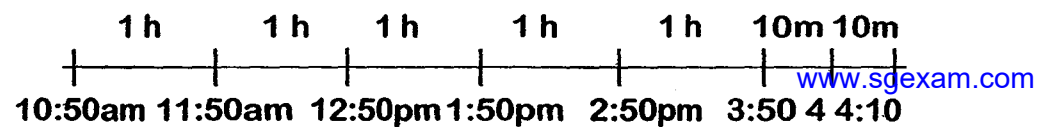
Q34 $10 \times 6 \Rightarrow \underline{60 \text{ h}}$

Booklet C

Q35 (a) 10:50 am



(b) 4:10 pm



Q36 $4750 - 800 \rightarrow 3950$
 $3950 - 800 \Rightarrow 3150 \approx \underline{3 \text{ kg } 150 \text{ g}}$

Q37 (a) $\$110 - \$30 = \$80$
 $\$80 \div 2 \Rightarrow \underline{\$40}$

 (b) $\$40 - \$30 \Rightarrow \underline{\$10}$

Q38 $48 \times 3 = 144$
 $239 + 144 = 383$
 $383 - 28 \Rightarrow \underline{355 \text{ sweets}}$

Q39 (a) $20 + 13 + 20 + 13 \Rightarrow \underline{66 \text{ m}}$

 (b) $66 \times \$5 \Rightarrow \underline{\$330}$

Q40 7 bags of apples

50