END-OF-YEAR EXAMINATION 2016 MATHEMATICS BOOKLET A PRIMARY THREE

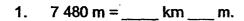
Name:	()	Class: Primary 3
Date: 27 October 2016	Duratio	n of B	ooklets A & B: 1 hour 45 minutes

INSTRUCTIONS TO CANDIDATES

- 1. This question paper consists of 5 printed pages, including the cover page.
- 2. Do not turn this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Shade your answers on the Optical Answer Sheet (OAS) provided.

Section A (10 x 2 marks each)

For each of the following questions, four options are given. Choose the correct option and shade its oval (1, 2, 3 or 4) in the Optical Answer Sheet provided.



- (1) 7 km 48 m
- (2) 7 km 480 m
- (3) 70 km 48 m
- (4) 70 km 480 m

2. 3 080 is 100 more than

- (1) 2 080
- (2) 2 980
 - (3) 3,090
 - (4) 3 180

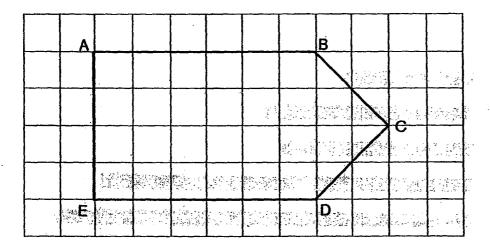
3. Which fraction is equivalent to $\frac{8}{12}$?

- (1) $\frac{1}{2}$
- (2) $\frac{1}{4}$
- (3) $\frac{2}{3}$
- (4) $\frac{3}{4}$

4. Aaron finished watching a concert at 2.45 p.m. The concert lasted 1 h 20 min. What time did the concert start?

- (1) 1.25 p.m.
- (2) 1.45 p.m.
- (3) 3.05 p.m.
- (4) 3.35 p.m.

5. The figure below is not drawn to scale. How many angles in the figure ABCDE are greater than right angles?

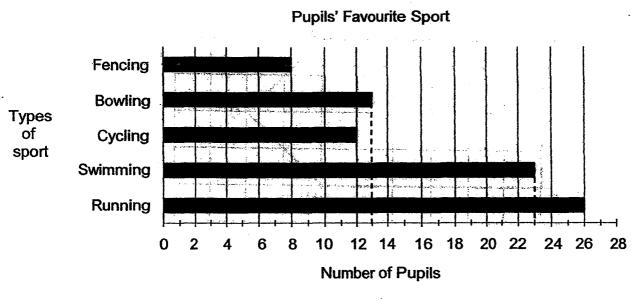


- **(1)** 0.
- (2) 2
- (3) 3
- (4) 5
- 6. Which of the following adds up to the greatest odd number?
 - (1) 900 + 80 + 4
 - (2) 800 + 90 + 4
 - (3) 800 + 40 + 9
 - $(4) \quad 400 + 80 + 9$
- 7. Which letter below does not have perpendicular lines?
 - (1) A

4.5

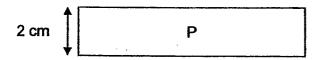
- (2) E
- (3) F
- (4) H

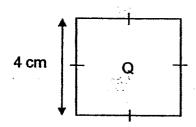
The bar graph below shows the types of sport that a group of pupils like. Study the graph carefully and answer question 8.



- 8. Which sport has twice as many pupils as Bowling?
 - (1) Cycling
 - (2) Fencing
 - (3) Running
 - (4) Swimming
- 9. Alex wants to buy a toy car and a scooter bike. The toy car costs \$39.45 and the scooter bike costs \$99.90. How much more does Alex need if he has only \$100?
 - (1) \$239.35
 - (2) \$139.35
 - (3) \$60.55
 - (4) \$39.35

10. The shapes below are not drawn to scale.
P is a rectangle and Q is a square. The 2 shapes have the same area.
What is the length of rectangle P?





- (1) 16 cm
- (2) 8 cm
- (3) 6 cm
- (4) 4 cm

END-OF-YEAR EXAMINATION 2016 MATHEMATICS BOOKLET B PRIMARY THREE

Name:	()	Class: Primary 3
Date: 27 October 2016	Duratio	on of Bo	ooklets A & B: 1 hour 45 minutes
		i	Parent's/Guardian's signature

INSTRUCTIONS TO CANDIDATES

- 1. This question paper consists of 16 printed pages, including the cover page.
- 2. Do not turn this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.

Sadione	Maximoniculares	Marks Obainata
A. Multiple-Choice Questions	20	
B. Short Answers	38	
C. Problem Sums	22	
Total Marks	80	

SECTION B - Short Answers (38 Marks)

Questions 11 to 20 carry 1 mark each. Questions 21 to 34 carry 2 marks each. Show all workings and mathematical statements clearly in the space below each question. Write your answer in the space provided. Express your answers in the units stated and in its simplest form whenever possible.

11.
$$\frac{4}{7} + \frac{2}{7} = \boxed{?}$$

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UI 12 AACI	•,	

12. Express 2 h 50 min in minutes.

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Ansv	ver .	mir

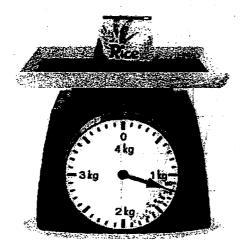
13. Arrange the following fractions in descending order.

$$\frac{3}{7}$$
, $\frac{3}{5}$, $\frac{3}{11}$

Answer: ____, ___, ___

greatest

14. What is the mass of the bag of rice?

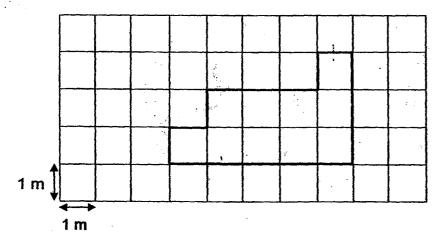


Answer	:	ka.	·C
,	•	 	 - 2

15.
$$\frac{5}{8} - \frac{1}{4} = \boxed{?}$$

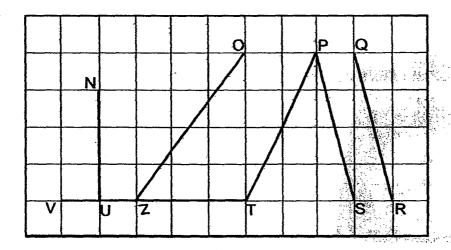
Answer:

16. The figure below, not drawn to scale, is made up of 1-m squares. Find its perimeter.



Answer:_____i

Study the diagram below carefully and answer questions 17 and 18.



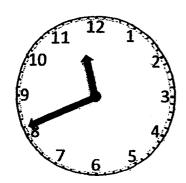
17. Name a vertical line.

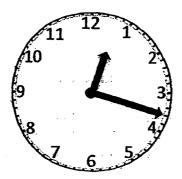
Answer : _____

18. Name a pair of parallel lines.

Answer : _____ // ____

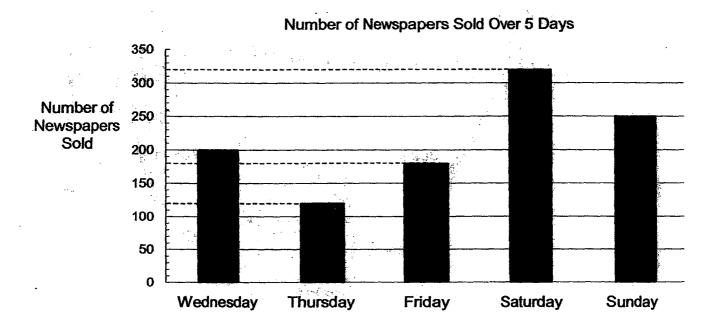
19. How many minutes are there from 11.41 p.m. to 12.18 a.m.?





Answer: ____ mir

The bar graph below shows the number of newspapers sold over a period of 5 days. Study the graph carefully and answer questions 20 and 21.



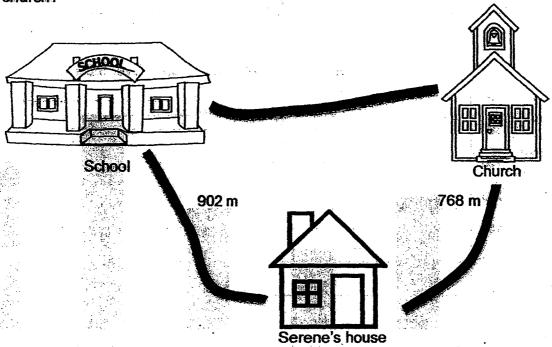
20. On which day was the least number of newspapers sold?

Answer: _____

21. How many more newspapers were sold on Sunday than on Friday?

Answer:

22. Look at the picture below. How much further is Serene's house to school than to church?



Answer:	m	۰
MISWGI.	11	z

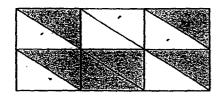
23. There are 42 pupils in Primary 3G. During assembly, all the pupils sit equally in 6 rows. How many pupils are there in each row?

Answer:

24. Kylie had 4 ten-dollar notes and 3 two-dollar notes. After she bought a doll for \$23.65, how much money had she left?

Answer: \$ _____

25. What fraction of the figure below is **shaded**? Express your answer in the simplest form.



Answer:

26. What is the missing number in the box?

$$\frac{2}{6} = \frac{?}{9}$$

27.	Carol bought a carton of milk and a lollipop. The carton of milk costs \$2.90. She paid the cashier \$5 and received a change of \$1.10. How much did the lollipop cost?
	Answer: \$
28.	The difference between two numbers is 185. The smaller number is 776. What is
	the bigger number?
	·
	Answer:
,	en en grande de la companya de la co
29.	The breadth of a rectangular piece of paper is 6 cm. The length of the paper is 14 cm. What is the perimeter of the piece of paper?
	14 cm
	<u></u>
	6 cm
	<u> </u>

Answer:

cm

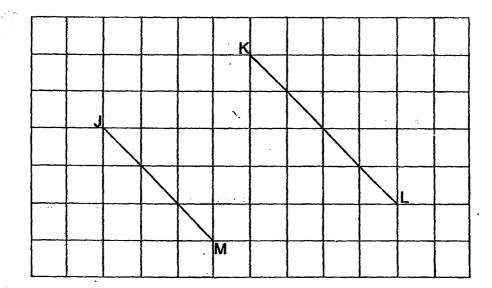
30. A tailor sews 7 buttons on each blouse. How many buttons does the tailor have if he has 2 buttons left after sewing 84 blouses?

Answer:

31. 378 rubber bands were shared equally among some children. If there were 9 children, how many rubber bands did each child receive?

Answer:

32. The figure below shows 2 straight lines JM and KL. Use a set-square to draw a line parallel to the 2 given lines.



33.	500 g of flour is packed into 2 bags. One bag has 100 g more flour than the other bag. What is the mass of the lighter bag?
	Answer: g
34.	lan has 3 different shirts and 3 different pairs of shorts. In how many ways can he
	wear his shirts and shorts?
· "*;.	wear his shirts and shorts?
• **•.•	
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e Tess	
eres.	

SECTION C - Problem Sums (22 Marks)

Questions 35 to 36 carry 3 marks each. Questions 37 to 40 carry 4 marks each. Show your working and mathematical statements clearly in the space below each question. All figures are not drawn to scale. Write your answer in the answer space provided. Express your answers in the units stated and in its simplest form whenever possible.

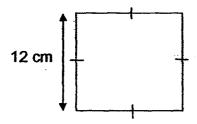
35. Peter and Mark picked up a total of 150 cans. For every 3 cans that Peter picked up, Mark picked up 2 cans. How many did Peter pick up?

Answer:		ſ	3	
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36. A piece of rope is 100 cm long. It is cut into 2 pieces.

One piece is used to form a square. Each side of the square is 12 cm.

What is the length of the other piece?



37.	Ryan started working at 8.30 a.m. in the morning. He worked for 4 h 15 min before he went for his lunch.	
	(a) What time did he go for his lunch?	
	(b) He worked 1 h 55 min more after his lunch. How long did he work in total?	
		with
	· .	

Answer: (a) _____ [2]

(b) [2]

38.		rmer plucked 1 734 apples from his orchard. He packed 1 056 of the apples boxes and gave the rest to his friends.
	(a)	How many apples did the farmer give to his friends?
-	(b)	The farmer then packed 8 apples in a box. How many boxes of apples did he pack?

- 39. Brandon drinks 225 ml of milk in a day.
 His baby brother drinks 8 times as much milk as him.
 His sister drinks 75 ml less milk than Brandon.
 - (a) How much milk does Brandon's baby brother drink daily?
 - (b) How much milk does Brandon's sister drink daily?

Answer: (a)	[2]
(b)	ſ	2]

40.	Lawrence saved \$5 in Week 1. He saved \$10 in Week 2. He saved \$15 in Week 3. He continued saving in this pattern.					
	(You may make a table.)					

(a) In which week did he save \$30?

(b) How much would he save in Week 8?

Week	Total Amount of \$ Saved	Total Amount of \$ Saved				
•						
						
		·····				
·						
·						

Answer: (a)	[2	1
(b)	ſ	2	1

ANSWER KEY

YEAR

: 2016

LEVEL

PRIMARY 3

SCHOOL

ANGLO-CHINESE

SUBJECT

MATHEMATICS

TERM

SA2

Booklet A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	2	3	1	2	3	1	3	4	2

Booklet B

Q11

 $\frac{6}{7}$

Q12

170 min

Q13

 $\frac{3}{5}$, $\frac{3}{7}$, $\frac{3}{11}$

Q14

1 kg 200 g

Q15

 $\frac{3}{8}$

Q16

16 m

Q17

QR

Q18

PS // QR

Q19

37 min

Q20

Thursday

Q21

250 – 180 ⇒ 70 more newspapers

Q22

 $902 - 768 \Rightarrow \underline{134 \text{ m}}$

Q23

 $42 \div 6 \Rightarrow 7 \text{ pupils}$

Q24 $$46.00 - $23.65 \Rightarrow 22.35

Q25 $\frac{1}{2}$

Q26 3

Q27 \$2.90 + \$1.10 → \$4.00 \$5.00 - \$4.00 ⇒ <u>\$1 each lollipop</u>

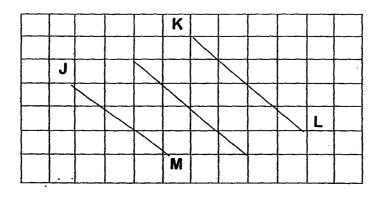
Q28 $776 + 185 \Rightarrow 961$

Q29 $14 \times 2 = 28$ $6 \times 2 = 12$ $28 + 12 \Rightarrow 40 \text{ cm}$

Q30 $84 \times 7 \rightarrow 588$ $588 + 2 \Rightarrow \underline{590 \text{ buttons}}$

Q31 $378 \div 9 \Rightarrow 42$ rubber bands

Q32



Q33 $500 - 100 \rightarrow 400$ $400 \div 2 \Rightarrow 200 \text{ g}$

Q34 9 ways

Q35

Peter	Mark	Total
30	20	50
60	40	100
90	60	150

Answer \Rightarrow Peter picked up <u>90 cans</u>.

Q36 $12 \times 4 \rightarrow 48$ 100 - 48 \Rightarrow 52 cm

		15 min	4 hour	**
Q37	<u>(</u> a)	8:30am 8:45am		12:45pm
		Answer ⇒ <u>12:45 pm</u>		
	(b)	4 h 15 min + 1 h 55 n	nin ⇒ <u>6 l</u>	<u>h 10 min</u>
Q38	(a)	1734 - 1056 ⇒ <u>678 a</u>	pples	
	(b)	$1056 \div 8 \Rightarrow \underline{132 \text{ boxe}}$	<u>es</u>	
Q 39	(a)	225 x 8 ⇒ <u>1800 ml</u>		
	(b)	225 - 75 ⇒ <u>150 ml</u>		
Q40	(a)	Answer ⇒ <u>Week 6</u>		

Week	Total Amount of \$ Saved
1	\$5
2	\$10
3	\$15
4	\$20
5	\$25
6	\$30
7	\$35
8	\$40
9	\$45
10	\$50
11	\$55
12	\$60

(b) Answer ⇒ <u>\$40</u>