Semestral Assessment 2

Primary Four

2016

MATHEMATICS

BOOKLET A

Name : _____ ( )

Class : Primary 4 _____

Date : 27th October 2016

Parent's Signature: _____

Total Time for Booklets A & B: 2h

Instructions to Candidates:

1. Write your name, class and register number in the spaces provided clearly.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided.
6. You are **NOT** allowed to use a calculator.

Questions 1 to 6 carry 2 marks each. Questions 7 to 16 carry 1 mark each. Questions 17 to 20 carry 2 marks each. For each question, 4 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. You are **not** allowed to use a calculator.

(30 marks)

---

1. In which of the following numbers does the digit 8 stand for 800?

   (1) 2548
   (2) 2854
   (3) 5284
   (4) 8254

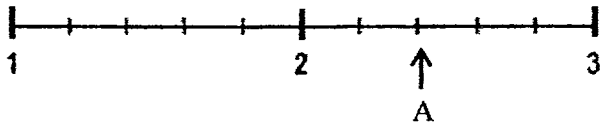
2. 37 658 rounded to the nearest hundred is _____.

   (1) 37 600
   (2) 37 660
   (3) 37 700
   (4) 38 000

3. Which of the following fractions is **not** in its simplest form?

   (1) $\frac{2}{7}$
   (2) $\frac{3}{5}$
   (3) $\frac{9}{10}$
   (4) $\frac{4}{6}$

4. Which of the following mixed numbers is represented by the letter A in the number line shown?



(1) $2\frac{2}{5}$

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

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

(4) $3\frac{3}{5}$

5. Write $5\frac{1}{20}$ as a decimal.

(1) 5. 12
(2) 5.1
(3) 5.05
(4) 5.005

6. Which number below is 1.5 less than 7.83?

(1) 6.33
(2) 7.68
(3) 7.98
(4) 9.33

Below is a table that records the growth of a child in terms of his height. Study the table and answer question 7.

Year	1	2	3	4	5
Height (cm)	75	81	88	97	103

7. During which period was his increase in height the most?

(1) Between Year 1 and Year 2
(2) Between Year 2 and Year 3
(3) Between Year 3 and Year 4
(4) Between Year 4 and Year 5

8. How many letters shown below have at least 1 line of symmetry?

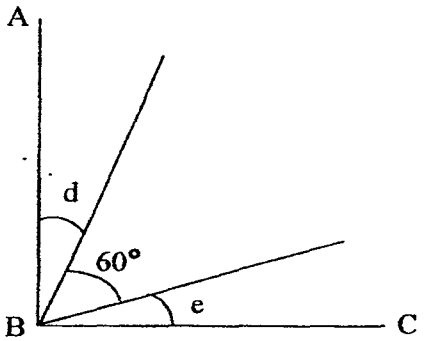
T R A I N

(1) 1
(2) 2
(3) 3
(4) 4

9. Gary took 2 min 5 s to solve a Mathematics question. Alvin was 20 s faster than him. How long did Alvin take to solve the Mathematics question?

(1) 2 min 25 s
(2) 2 min 15 s
(3) 1 min 45 s
(4) 1 min 15 s

10. $\angle ABC$ is a right angle. $\angle d$ is equal to $\angle e$. Find the value of $\angle e$.

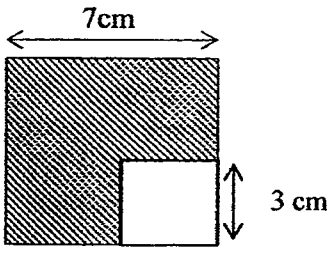


(1) 15°
(2) 30°
(3) 45°
(4) 60°

11. Lisa cuts a 6 m long rope into three pieces, A, B and C.
Rope A measures 1.88 m and is 1.5 m longer than Rope B.
What is the length of Rope C?

(1) 0.38 m
(2) 0.74 m
(3) 3.38 m
(4) 3.74 m

12. The figure below, not drawn to scale, shows 2 squares. The length of the big square is 7cm. The length of the small square is 3cm. Find the area of the shaded part.



(1) 9 cm^2
(2) 21 cm^2
(3) 40 cm^2
(4) 49 cm^2

13. John's savings is $\frac{2}{5}$ of his sister's savings.
What is John's savings if their total savings is \$210?

(1) \$60
(2) \$84
(3) \$140
(4) \$150

14. Amanda paid \$12 for 4 similar muffins and 4 similar canned drinks. Each muffin cost \$0.50 more than each canned drink. How much did a muffin cost?

(1) \$1.25
(2) \$1.50
(3) \$1.75
(4) \$3.00

15. There were some pupils in the Dance Club at Bedok Primary School. At the end of Term 1, 28 pupils left the club while 11 new pupils joined. There were 80 pupils remaining in the club. How many pupils were there in the club at first?

(1) 63
(2) 91
(3) 97
(4) 119

16. Amirah had a packet of sugar. She used $\frac{1}{4}$ of the packet of sugar to make cookies and $\frac{1}{6}$ of it to make muffins. In the end, she had 70 g of sugar left. How much sugar was there in the packet at first?

(1) 50 g
(2) 98 g
(3) 120 g
(4) 168 g

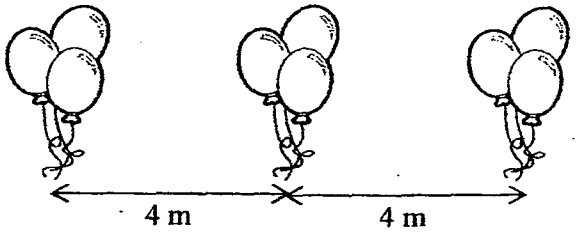
17. $5 \times$  $=$ 

 $\div 4 = 100$

What does  stand for?

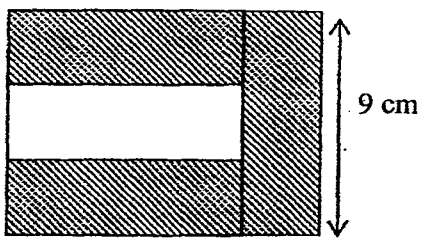
(1) 5
(2) 25
(3) 80
(4) 400

18. Rebecca wants to decorate a corridor with balloons. She places each group of 3 balloons 4 m apart from each other along the corridor. If the corridor is 28 m long, how many balloons does Rebecca need in all to decorate the corridor?



(1) 7
(2) 8
(3) 21
(4) 24

19. The figure below is made up of 4 identical rectangles. Find the perimeter of the shaded part.



(1) 42 cm
(2) 60 cm
(3) 72 cm
(4) 81 cm

20. Anna, Betty and Clare went shopping. Anna and Betty spent a total of $45 while Betty and Clare spent $60 altogether. If Clare spent thrice as much as Anna, how much did Anna spend?

(1) $3.75
(2) $5.00
(3) $7.50
(4) $15.00

----- End of Booklet A -----

Semestral Assessment 2

Primary Four

2016

MATHEMATICS

BOOKLET B

Name : _____ ( )

Class : Primary 4 _____

Date : 27th October 2016

Parent's Signature: _____

Total Time for Booklets A & B: 2h

Instructions to Candidates:

1. Write your name, class and register number in the spaces provided clearly.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.
6. You are **NOT** allowed to use a calculator.

Paper	Marks	Scores
Section A	**30**	
Section B	**40**	
Section C	**30**	
Total	**100**	

Questions 21 to 40 carry 2 marks each. Show your working clearly in the space provided for each question and write your answer in the spaces provided. For questions which require units, give your answers in the units stated. You are **not** allowed to use a calculator.

(40 marks)

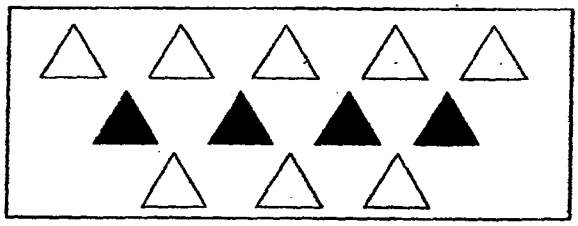
21. Write forty thousand and sixty-nine in figures.

Ans: _____

22. Some factors of 20 are 1, 2, 4 and 20. What are the other two factors of 20?

Ans: _____ and _____

23. What fraction of the triangles shown are grey in colour?



Ans: _____

24. $\frac{1}{2} - \frac{1}{8} =$ _____

Ans: _____

25. Write $2\frac{3}{5}$ as an improper fraction.

Ans: _____

26. Round 13.55 to the nearest whole number.

Ans: _____

27. Write 4 thousandths as a decimal.

Ans: _____

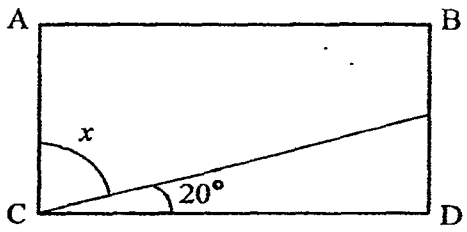
28. Arrange the following numbers from the greatest to the smallest.

0.75 , 0.075 , 0.705

Ans: _____ (greatest) , _____ , _____ (smallest)

---

29. In the figure below, ABCD is a rectangle. Find the value of $\angle x$.



Ans: _____ °

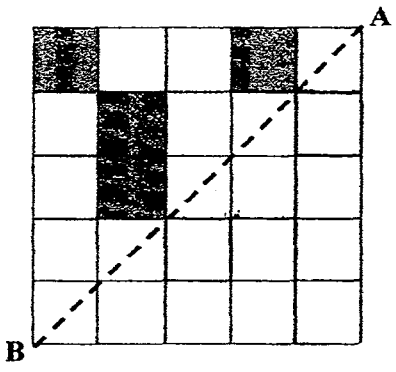
---

30. Haren had 25 cupcakes left after giving away 30 cupcakes to his neighbour. What fraction of the cupcakes was remaining? Express your answer in its simplest form.

Ans: _____

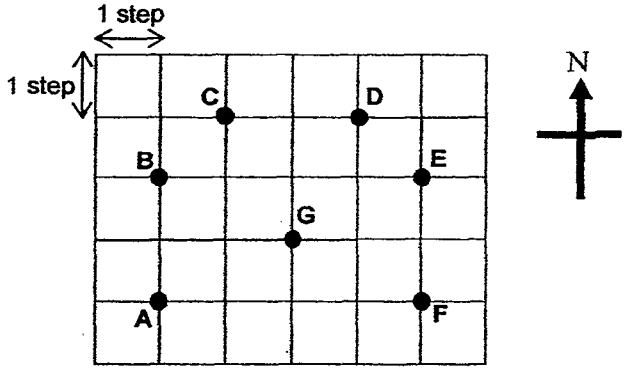
---

31. The figure below is half of a symmetric pattern with the dotted line AB as the line of symmetry. Complete the symmetric pattern by **shading** the squares.



---

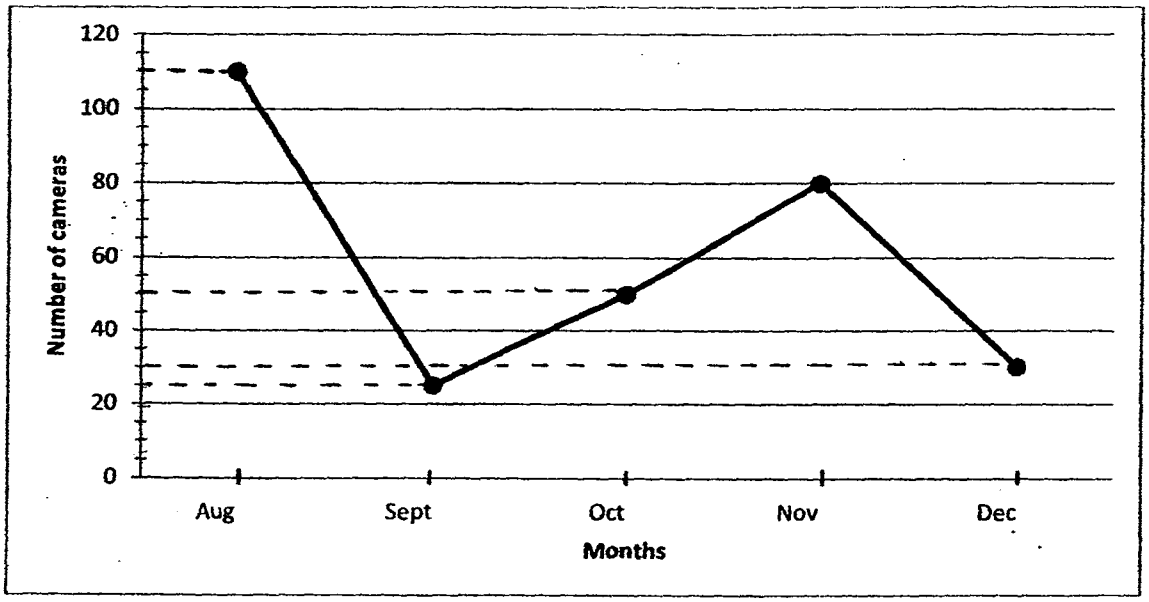
32. Study the diagram below carefully.



Megan is at Point G. She needs to walk in the north-west direction to meet her friend, Zainab.
At which 2 Points could Zainab be possibly standing at?

Ans: Point _____ or Point _____

The graph below shows the number of cameras sold by Company A over a period of 6 months. Use it to answer Questions 33 and 34.



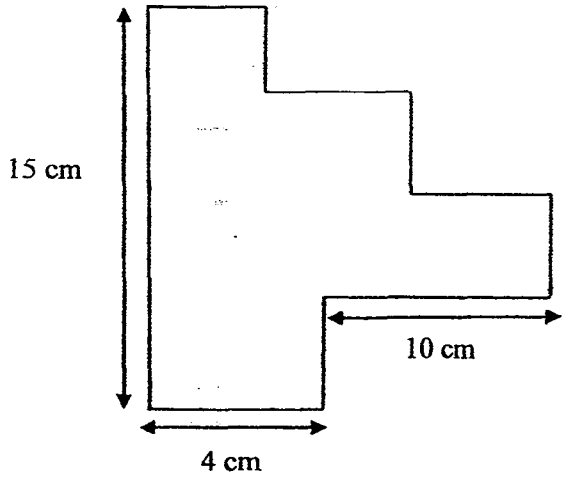
33. What is the total number of cameras sold in August and October?

Ans: _____

34. Company A donated $\frac{1}{5}$ of its earnings to charity in December. If each camera cost $199, how much did Company A donate to charity in December?

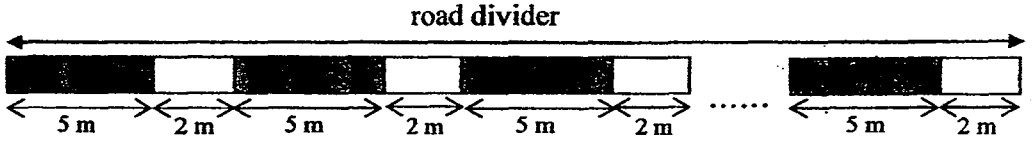
Ans: $_____

35. Find the perimeter of the figure below.



Ans: _____ cm

36. A road divider is painted in black and white segments as shown below. If the road divider is 147 m long, how many black segments are there?



Ans: _____

37. Shafrin wanted to buy 5 identical bars of chocolate but was short of $4.60. If Shafrin only had $20.40 in her purse, how much would it cost her to buy 3 such bars of chocolate?

Ans: $ _____

---

38. Yu Rong and Puey Meng shared 200 stickers altogether. After Yu Rong gave Puey Meng 9 stickers, Puey Meng had 4 times as many stickers as Yu Rong had. How many stickers did Yu Rong have at first?

Ans: _____

---

39. Elyssa drank 0.87 ℓ of milk on Monday. On Tuesday, she drank 0.25 ℓ more milk than on Monday. On Wednesday, she drank half as much milk as on Tuesday. How much milk did she drink on Wednesday?

Ans: _____ ℓ

---

40. I am a 3-digit odd number.
All my three digits are different.
All my three digits are multiples of 3.
My first digit is twice the third digit.
What number am I?

Ans: _____

For questions 41 to 48, show your workings 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.

(30 marks)

---

41. Edmund took 1h 20 min to complete his homework. He completed his homework at 4pm. What time did Edmund start doing his homework?
(Give your answer in the 24-h clock.)

Ans: _____ (2 marks)

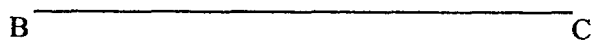
---

42. The number of girls is $\frac{3}{7}$ the number of boys at a school camp. There are 96 more boys than girls. How many children attended the school camp?
[Draw a model to help you solve this problem. One mark will be awarded for the correct model drawn.]

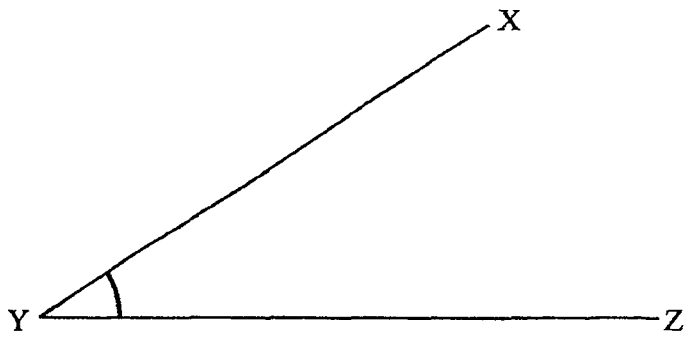
Ans: _____ (3 marks)

---

43. (a) Using a protractor, draw an angle measuring 15° and label it $\angle$ ABC. [1]



(b) Using a protractor, measure $\angle XYZ$.



Ans: (b) _____ (1 mark)

(c) From 12 pm to 2.30 pm, how many right angles would the minute-hand have turned?

Ans: (c) _____ (2 marks)

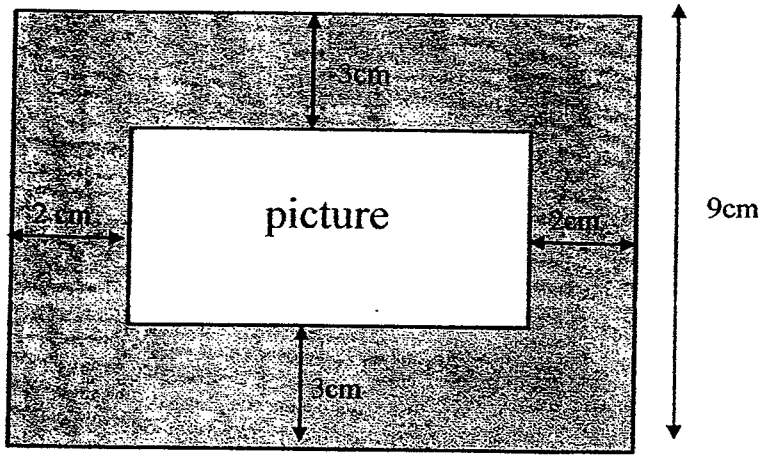
44. Elijah has 20 pieces of notes in his piggy bank. There are only $2 notes and $5 notes in it. The total value of the money in the piggy bank is $55. How many $2 notes are there?

Ans: _____ (3 marks)

45. The area of a rectangular wooden frame is $108cm^2$ and its breadth is 9cm. A picture is mounted in the centre of the frame leaving a border round it.

(a) Find the length of the wooden frame.

(b) Find the area of the border.



Ans: (a) _____ (1 mark)

(b) _____ (4 marks)

46. Felicia bought 7 kg of potatoes from the market. She used $1\frac{2}{3}$ kg of potatoes in the morning and $\frac{4}{9}$ kg less in the evening.

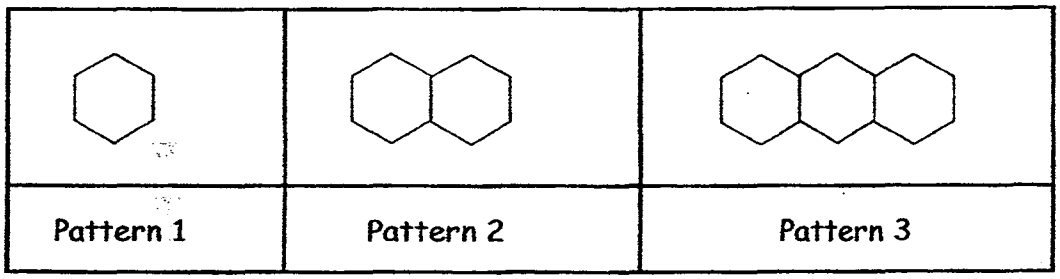
(a) What was the mass of potatoes she used altogether?

(b) What was the mass of potatoes she had left?

Ans: (a) _____ (3 marks)

(b) _____ (1 mark)

47. Study the pattern carefully.



(a) Complete the table below for Pattern 4. (1 mark)

Pattern Number	Number of sticks
1	6
2	11
3	16
4	

(b) How many sticks are needed for Pattern 20?

Ans: (b) _____ (2 marks)

(c) _____ (2 marks)

48. 3 boys shared some marbles. Faiq received thrice as many marbles as Daniel. Shane received 6 marbles more than Faiq. Daniel received 50 fewer marbles than Shane.

(a) How many marbles did Daniel receive?

(b) How many marbles did the 3 boys have altogether?

Ans: (a) _____ (2 marks)

(b) _____ (2 marks)

----- End of Booklet B -----

ANSWER KEY

YEAR : 2016
LEVEL : PRIMARY 4
SCHOOL : TEMASEK PRIMARY
SUBJECT : MATHEMATICS
TERM : SA2

Booklet A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	3	4	1	3	1	3	3	3	1
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
4	3	1	3	3	3	3	4	2	3

Booklet B

Q21 40 069

Q22 5 and 10

Q23 $\frac{4}{12}$ or $\frac{1}{3}$

Q24 $\frac{3}{8}$

Q25 $\frac{13}{5}$

Q26 14

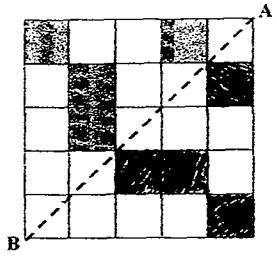
Q27 0.004

Q28 0.75, 0.705, 0.075

Q29 70 °

Q30 $\frac{5}{11}$

Q31



Q32 Point B or Point C

Q33 160

Q34 199 x 6 ⇒ $1194

Q35 58 cm

Q36 21 black segments

Q37 5 bars → $25
1 bar → $5
3 bars ⇒ $15

Q38 1u → 40
Yu Rong → 40 + 9 ⇒ 49 stickers

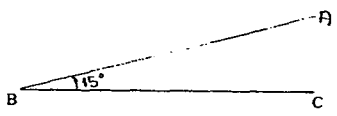
Q39 Mon → 0.87 ℓ
Tue → 1.12 ℓ
Wed ⇒ 0.56 ℓ

Q40 693

Q41 1440hrs

Q42 1 unit → 96 ÷ 4 = 24
24 x 10 ⇒ 240 children

Q43 (a)



(b) 33 °

(c) 10 right angles

Q44 Assuming all are $5
20 x $5 = $100
$100 - $55 = $45
$45 ÷ 9 = 5
No of $2 notes → 20 - 5 ⇒ <u>15</u>

Q45 (a) Length of wooden frame → 108 cm^2 ÷ 9 cm ⇒ <u>12 cm</u>

(b) 12 cm – 2 cm – 2cm = 8 cm
9 cm – 3 cm – 3 cm = 3 cm
Area of picture → 8 cm x 3 cm = 24 cm^2
Area of border → 108 cm^2 - 24 cm^2 ⇒ <u>84 cm^2</u>

Q46 (a) Mass of potatoes used in all → $1\frac{2}{9} + \frac{4}{9} \Rightarrow 2\frac{8}{9}$ kg

(b) Mass of potatoes left → $7 - 2\frac{8}{9} \Rightarrow 4\frac{1}{9}$ kg

Q47 (a) Number of sticks ⇒ <u>21</u>

(b) 101 sticks

(c) Pattern 41

Q48 (a) 44 ÷ 2 ⇒ <u>22 marbles</u>

(b) (22 x 7) + 6 ⇒ <u>160 marbles</u>

End