SINGAPORE CHINESE GIRLS' SCHOOL (PRIMARY)
PRIMARY 6 MATHEMATICS
TERM 1 WEIGHTED ASSESSMENT

Name: _____ ( ) Date: _____

Class: Primary 6 SY / C / G / SE / P

Duration: **40 minutes**
Calculators are not allowed for this assessment.

30

Parent's Signature: _____

Section A

Questions **1** to **6** carry 1 mark each. Questions **7** and **8** carries 2 marks each.
For each question, four options are given. Choose the correct answer and write its number in the brackets provided. **(10 marks)**

1. Divide $\frac{3}{4}$ by 12.

(1) $\frac{1}{9}$

(2) $\frac{1}{16}$

(3) 9

(4) 16

( )

2. Serene has 3 times as much money as Maju. Ting Xi has $\frac{1}{2}$ as much money as Serene. What is the ratio of the amount of money that Maju has to amount of money Ting XI has to the amount of money Serene has?

(1) 1 : 6 : 3

(2) 2 : 3 : 6

(3) 3 : 2 : 1

(4) 6 : 1 : 2

( )

3. $\frac{4}{5}$ of a bag of flour weighs $\frac{2}{3}$ kg. How much does 2 bags of flour weigh?

(1) $\frac{5}{6}$ kg

(2) $1\frac{1}{15}$ kg

(3) $1\frac{2}{3}$ kg

(4) $5\frac{1}{3}$ kg ( )

4. Arrange the following fractions from the smallest to the largest.

$$\frac{3}{8}, \frac{1}{3}, \frac{3}{10}$$

(1) $\frac{1}{3}, \frac{3}{8}, \frac{3}{10}$

(2) $\frac{1}{3}, \frac{3}{10}, \frac{3}{8}$

(3) $\frac{3}{8}, \frac{1}{3}, \frac{3}{10}$

(4) $\frac{3}{10}, \frac{1}{3}, \frac{3}{8}$ ( )

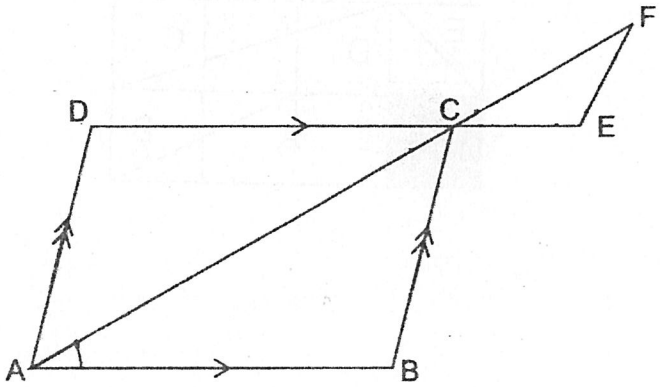
5. The figure below, not drawn to scale, shows a parallelogram ABCD and a triangle CEF. AF and DE are straight lines. Which angle is equal to ∠CAB?

(1) ∠ACB

(2) ∠CEF

(3) ∠DAC

(4) ∠ECF



( )

6. Germaine uses the four letters A, B, C and D to form a pattern. The first 18 letters are shown below. Find the ratio of the number of letter A to the number of letter C for the first 25 letters.

A B A C D D A B A B A C D D A B A B ...

(1) 3 : 1
(2) 7 : 2
(3) 7 : 3
(4) 8 : 3

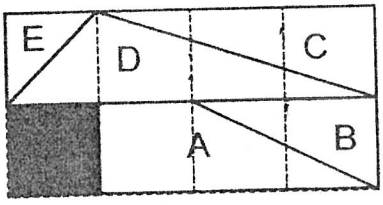
( )

7. Melissa has a ribbon of $\frac{9}{10}$ m in length. She cut it into equal lengths of $\frac{1}{4}$ m long. What is the length of the remaining ribbon?

(1) $\frac{3}{5}$ m
(2) $\frac{3}{20}$ m
(3) $\frac{5}{18}$ m
(4) $\frac{8}{15}$ m

( )

8. The figure below is made up of 8 unit squares. Which parts must be shaded so that the figure is $\frac{3}{4}$ shaded?



(1) A, B and D
(2) A, C and D
(3) B, C and D
(4) B, D and E

( )

Section B

Questions **9** to **14** carry 1 mark each. Questions **15** to **21** carry 2 marks each. Show your working in the space provided below each question. Write your answers in the spaces provided.

(20 marks)

9. How many eighths are there in $3\frac{1}{2}$?

Ans : _____

10. Find the value of $\frac{4}{9} \div \frac{8}{15}$. (Give your answer in its simplest form.)

Ans : _____

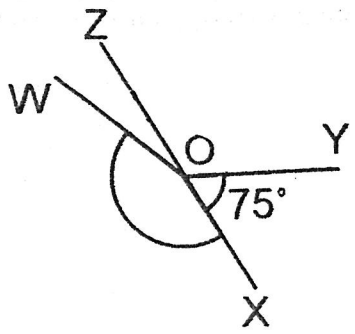
11. Melissa has \$45 and Jing Zhi has \$20. Express the amount of money Jing Zhi has as a fraction of the amount of money Melissa has.

Ans: _____

12. 6 pencils costs \$10.80. Find the cost of 9 pencils.

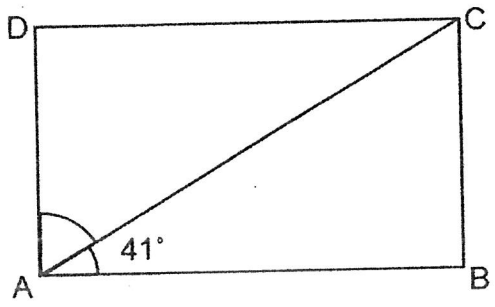
Ans: \$ _____

13. In the figure below, not drawn to scale, XZ is a straight line and ∠XOY is 3 times ∠WOZ. Given that ∠YOX is 75°; find ∠WOX.



Ans: _____ °

14. The figure below shows a rectangle ABCD. Find ∠CAD.



Ans: _____ °

15. Mrs Chia had $\frac{4}{5}$ kg of rice. She gave $\frac{1}{8}$ kg of it to her neighbour and she packed the rest into packets of $\frac{1}{10}$ kg. What is the maximum number of packets she can get?

Ans: _____

16. At a shop, $\frac{1}{4}$ of the price of a pair of pants is equal to $\frac{2}{5}$ of the price of a dress. A pair of pants costs twice as much as a shirt. Mrs Choo spent $700 on 2 pairs of pants, 3 dresses and a shirt.

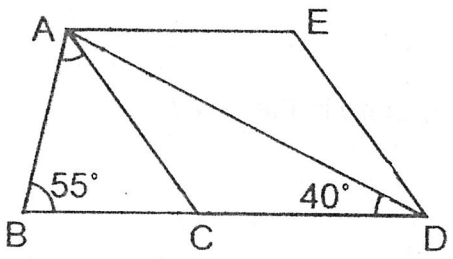
(a) What fraction of his money did he spend on dresses? Give your answer in the simplest form.

Ans:(a) _____

(b) How much did a dress cost?

Ans:(b) $_____

17. ACDE is a rhombus and BD is a straight line. Find ∠BAC.



Ans: _____ °

18. The breadth of a rectangle is $\frac{2}{3}$ of its length. The perimeter of the rectangle is 105 cm. Find the length of the rectangle.

Ans: _____ cm

19. In a quiz, marks were awarded for questions answered as shown below.

Correct	4 marks awarded
Wrong	2 marks deducted
Not attempted	1 mark deducted

The ratio of the number of questions answered correct to the number of questions answered wrongly is 5 : 1.
Eric attempted 30 questions and scored 86 marks.

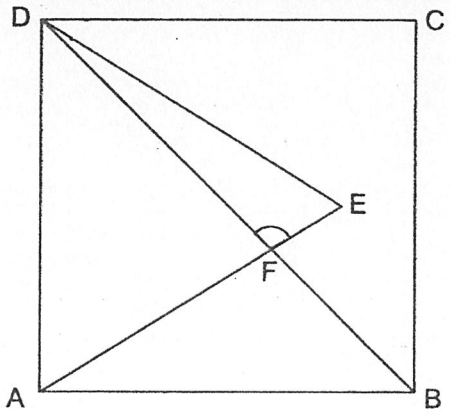
(a) How many questions did Eric answer correctly?

Ans: (a) _____

(b) How many questions are there in the quiz?

Ans: (b) _____

20. The figure below, not drawn to scale, shows an equilateral triangle ADE overlapping with a square ABCD. DFB and AFE are straight lines. Find ∠DFE.



Ans: _____°

21. Bell A will ring every 12 minutes while Bell B rings every 28 minutes. The two bells rang at the same time at 9.30 a.m. When is the next time the two bells will ring at the same time again?

Ans: _____

END OF PAPER

Please check your work

SCHOOL: SINGAPORE CHINESE GIRLS' SCHOOL (PRIMARY)

SUBJECT: MATHEMATICS

LEVEL: PRIMARY 6

PAPER: WA1

SECTION A

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

Ans: 10 : 3

SECTION B

Q9. 28

Q10. $\frac{5}{6}$

Q11. $\frac{4}{9}$

Q12. $16.20

Q13. 155°

Q14. 49°

Q15. $\frac{4}{5} - \frac{1}{8} = \frac{27}{40}$

$\frac{27}{40} \div \frac{1}{10} = \frac{27}{4} = 6\frac{3}{4}$

Ans: 6 packets

Q16. (a) $\frac{1}{4}$ of pants $= \frac{2}{5}$ of dress

$\frac{2}{8}$ of pants $= \frac{2}{5}$ of dress

Pants → 8u

Dress → 5u

Shirt → 4u

Total spent → $(2 \times 8u) + (3 \times 5u) + 4u = 35u$

Fraction spent on dresses → $\frac{15}{35} = \frac{3}{7}$

(b) 1u → $\$700 \div 35 = \$20$

5u → $\$20 \times 5 = \$100$

Ans: $100

Q17. $\angle ACD = 180° - 40° - 40° = 100°$

$\angle ACB = 180° - 100° = 80°$

$\angle BAC = 180° - 80° - 55° = 45°$

Ans: 45°

Q18. Perimeter → 2u + 2u + 3u + 3u = 10u

10u → 105cm

1u → 10.5cm

3u → 31.5cm

Q19. (a) 5u + 1u = 6u

6u → 30

5u → 25

Ans: 25 questions

(b) $(25 \times 4) - (5 \times 2) = 90$

$90 - 86 = 4$

$4 \div 1 = 4$

$30 + 4 = 34$

Ans: 34 questions

Q20. $\angle ADE = \angle DEA = 180° \div 3 = 60°$

$\angle CDE = 90° - 60° = 30°$

$\angle FDE = 45° - 30° = 15°$

$\angle DFE = 180° - 60° - 15° = 105°$

Ans: 105°

Q21. Lowest common multiple of 12 and 18 = 84

84min = 1h 24min

9.30 a.m. → 10.54 a.m.

(1h 24min)

Ans: 10.54 a.m.

3

END