Pei Chun Public School
Term 1 Weighted Assessment
Mathematics
Primary 6

Name: _____ ( )

Class : Primary 6/_____

Date : _____

Time : **Section A:** 30 min
(NO calculator is allowed)

Section A	24
Section B	26
TOTAL	50

Maths Teacher : _____

Parent's Signature: _____

Section A (No calculator is allowed)

Questions **1** to **10** 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)

Do not write in this space

1. Simplify the expression $7p + 12 + 16p - 5$.

Answer : _____

2. Find the value of $\frac{3+8k}{5}$ when $k = 7$. Express your answer as a mixed number.

Answer : _____

SCORE

(Go on to the next page)

3. Find the value of $50 \div 2000$. Express your answer as a decimal.

Do not write in this space

Answer : _____

4. Round 235 490 to the nearest thousand.

Answer : _____

5. Find the value of $\frac{1}{6} \div \frac{2}{3}$.
Express your answer as a fraction in the simplest form.

Answer : _____

6. There are 24 boys and 16 girls in a class.
What percentage of the pupils in the class are boys?

Answer : _____ %

7. Express 5.2 as a percentage.

Answer : _____ %

SCORE

Do not write in this space

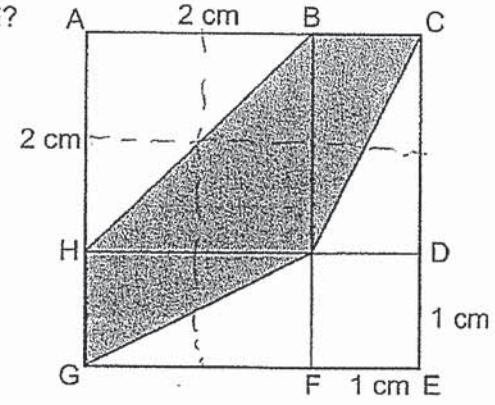
8. Write down all the common multiple(s) of 4 and 6 that is/are less than 30.

Answer : _____

9. Find the value of $\frac{3}{4} - \frac{2}{5}$.

Answer : _____

10. Square ACEG is made up of 2 squares and 2 rectangles.
AB = AH = 2 cm and DE = EF = 1 cm.
What fraction of square ACEG is shaded?



Answer : _____

SCORE

Questions **11** to **17** carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (14 marks)

Do not write in this space

11. The number of members in the Running Club increased from 80 to 100 last year. What was the percentage increase in the number of club members last year?

Answer : _____ %

12. Mei Hua had \$6*y*. After buying some cloth at \$5 per metre, she had \$2*y* left. How many metres of cloth did she buy? Express your answers in terms of *y*.

Answer : _____ m

13. Mrs Lim bought 30 pencils at \$0.24 each.
How much change did Mrs Lim receive after paying for the 30 pencils with a \$10 note?

Answer : \$ _____

14. Mrs Siva bought $\frac{3}{5}$ kg of mutton. She used $\frac{1}{4}$ of it.
How much mutton had she left? Express your answer as a fraction.

Answer : _____ kg

SCORE

15. In a 6-km run, a runner run past a cone at every $\frac{7}{8}$ km indicating the distance he has completed. There is a cone at the beginning and also at the end of the race. How many cones does the runner need to run past to complete the 6-km run?

Do not write in this space

Answer : _____

16. When a shop sold each plastic file for $6, Zainal could buy 10 files with his money. The shop now sells the files at a 20% discount.
What is the maximum number of files Zainal can buy with the same amount of money?

Answer : _____

17. Ray bought 100 oranges and 40 pears for his friends. He divided the oranges equally among them and had 15 oranges left. Then, he divided as many pears as possible among them and had 6 pears left. How many friends were there?

Answer : _____

End of Section A

SCORE

Pei Chun Public School
Term 1 Weighted Assessment
Mathematics
Primary 6

Name: _____ ( )

Class : Primary 6/ _____

Date : _____

Time : **Section B:** 45 min
(Calculator is allowed)

Maths Teacher : _____

Section B (Calculator is allowed)

Do not write in this space

For questions **18** to **20** carry 2 marks each, show your working clearly and write your answers in the spaces provided. You may use a calculator.

(6 marks)

18. Amin mixed 2.05 ℓ of orange juice with $\frac{3}{5}$ ℓ of lemon juice.
What was the total volume of the mixture of juices?
Give your answer in millilitres.

Answer : _____ ml

SCORE

19. 5 kg of sugar is distributed equally into 16 small bags.
What is the mass of sugar in each bag?
Round your answer to 2 decimal places.

Do not write in this space

Answer : _____ kg

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20. Nora spent 70% of her money on a bag and $\frac{3}{8}$ of the remainder on a purse.
What percentage of her money did she spend on the purse?

Answer : _____ %

SCORE

For questions **21** to **25**, show your working clearly 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. You may use a calculator.

(20 marks)

Do not write in this space

21. Jay had $\$k$. Richard had $\$(2k - 17)$. Mary had 3 times as much money as Jay. The three of them pooled all their money together to buy a gift for their mother.

(a) What was the price of the gift? Express your answer in terms of k.

(b) The price of the gift was \$127.
How much money did Richard have at first?

Answer : (a) _____ [2]

(b) _____ [2]

SCORE

22. (a) Mr Chan decreased the amount of household allowance given to Mrs Chan by 24% in June. As a result, the allowance in June was $1748.
What was the original household allowance given to Mrs Chan?

(b) With the allowance of $1748 in June, Mrs Chan spent 60% of the allowance and gave part of the remainder to her daughter. In June, the allowance given to her daughter dropped by 15% from $160.
In the end, how much of the allowance had Mrs Chan left in June?

Do not write in this space

Answer : (a) _____ [2]

(b) _____ [3]

SCORE

23. Hui Ling had \$480 at first. She used $\frac{1}{5}$ of her money to buy a pair of shoes and $\frac{5}{12}$ of the remaining money to buy a purse. How much had Hui Ling left?

Do not write in this space

Answer: _____ [3]

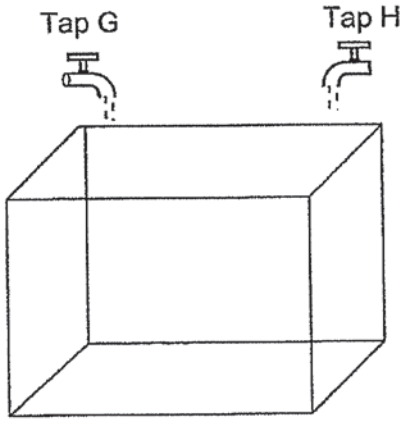
SCORE

24. The figure shows an empty tank placed below 2 taps, G and H.
It takes 18 min to fill the tank with Tap G alone and 12 min with Tap H alone.

Do not write in this space

(a) With only Tap H turned on, what fraction of the tank will be filled in 1 min?

(b) Starting with an empty tank, how long does it take for both taps together to fill up $\frac{1}{2}$ of the tank?



Answer : (a) _____ [1]

(b) _____ [3]

SCORE

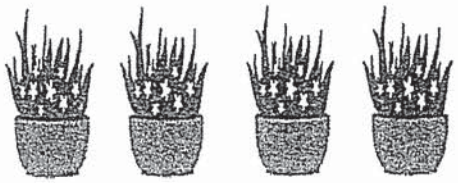
25. Kumar bought some plotted plants at the prices shown below.

Do not write in this space

Potted plants E

3 pots for $50

Potted plants F



4 pots for $62

Kumar bought an equal number of potted plants E and potted plants F.
He spent $182 less on plants F than on plants E.
How much did Kumar spend on potted plants F?

Answer :_____ [4]

End of Paper

Set by : Mr Tan Keng Hock

SCORE

ANSWER KEY

YEAR : 2020
LEVEL : PRIMARY 6
SCHOOL : PEI CHUN
SUBJECT : MATHEMATICS
TERM : CA1

SECTION A

Q1. 7 + 23P

Q2. $11\frac{4}{5}$

Q3. 0.025

Q4. 235000

Q5. $\frac{1}{4}$

Q6. 24 + 16 = 40

$\frac{24}{40}$ X 100 = 60%

Q7. $5\frac{2}{10}$

=520%

Q8. 12.24

Q9. $\frac{3}{4} - \frac{2}{5}$

$= \frac{15}{20} - \frac{8}{20}$

$= \frac{7}{20}$

Q10. $\frac{4}{9}$

Q11. 100 - 80 = 20

$\frac{20}{80}$ X 100 = 25%

Q12. \$6Y - \$2Y = \$4Y

$= \frac{4Y}{5}$ m

Q13. \$0.24 x 30 = \$7.20

\$10 - \$7.20 = \$2.80

Q14. $\frac{1}{4}$ x $\frac{3}{5}$ $= \frac{3}{20}$ kg

$\frac{3}{5} - \frac{3}{20} = \frac{12}{20} - \frac{3}{20}$

$= \frac{9}{20}$ kg

Q15. 8

Q16. $\frac{80}{100} \times 6 = \frac{240}{50}$

$= 4\frac{40}{50}$

$= 4\frac{4}{5}$

= \$4.80

\$6 x 10 = \$60

\$60 ÷ \$4.80 = 12

Q17. 100 – 15 = 85

25 – 5 = 17

40 – 6 = 34

34 ÷ 2 = 17

SECTION B

Q18. $\frac{3}{5}$ X 1000 = 600ML

2.05 X 1000 = 2050ML
2050 + 600 = 2650ML

Q19. 5 ÷ 16 = 0.3125
=0.31KG

Q20. 100% - 70% = 30%
1U = 30% ÷ 8
= 3.75%
PURSE- 3.75% X 3
= 11.25%

Q21.a) Mary - $K X 3
=$3K
TOTAL - $K + 3K + $(2K -17)
=$4K + $(2K – 17)
=(6K-17)

b) $6k = $127 + $17
= $144
k=$144 ÷ 6 = $ 24
Richard - $24 x 2 -17
= $31

Q22.a) 100% - 24% = 76%
76% - $1748
100% - $\frac{\$1748}{76}$ x 100
=$2300

b) 85% x $160
=$136
Mrs Chan- 40% x $1748
=$699.20
left - $699 – 20 - $136
= $563.20

Q23. 1unit = \$480 ÷ 15

=\$32

left - \$32 x7

=\$224

Q24.a) 1 min - $\frac{1}{12}$

b) Tap G – 1min $\frac{1}{18}$

Tap H – 1min $\frac{1}{12}$

1min – both $\frac{1}{18} + \frac{1}{12}$

$= \frac{5}{36}$

Q25. 1 plant + E - $\frac{50}{3}$

1 plant + F - $\frac{62}{4}$

plant E – plant F - $\frac{50}{3} - \frac{62}{4}$

$= 1\frac{1}{6}$

NO. Of Groups – 182 ÷ $1\frac{1}{6}$

=156

plant F – 156 ÷ 4 x 62

=2418