Parent's signature:
Date:

Anglo-Chinese School (Primary)
A Methodist Institution (Founded 1886)

40

Mathematics

Name: _____ ( ) Class: P 6 ____ Date: _____

Topical Test: Algebra / Fractions / Percentage

Section A (5 x 1 mark) Multiple-Choice Questions:

Write your option in the ( ) provided. The use of calculators is NOT allowed.

1. Find the value of $2 \div \frac{3}{5}$?

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

   (2) $\frac{5}{6}$

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

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

   ( )

2. Joshua is $8n$ years old now. He is 3 years younger than Aaron and twice as old as Hardy. What will be their total age in 5 years' time?
   Leave your answer in terms of n.

   (1) $20n + 3$

   (2) $20n - 3$

   (3) $20n + 18$

   (4) $20n + 15$ ( )

3. Lucy cut a cake into 10 equal pieces. She gave 40% of the cake to her sister and ate $\frac{1}{3}$ of the remaining cake. What fraction of the cake was left in the end?

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

(2) $\frac{4}{15}$

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

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

4. A swimming club has 80 male and 120 female members. 50% of the male members and 20% of the female members are students and the rest are adults. What percentage of the members are adults?

(1) 12%
(2) 20%
(3) 64%
(4) 68% ( )

5. The usual price of a dress was $90. Miss Tan bought it at a discount and paid $72. What was the percentage discount that Miss Tan receive?

(1) 18%
(2) 20%
(3) 25%
(4) 80%

( )

Section B (3 x 1 mark) Open-ended Questions

Write your answer in the spaces provided. For questions which require units, give your answers in the units stated. The use of calculators is NOT allowed.

6. Express 0.8% as a fraction in its simplest form.

Ans: _____

7. Find the value of $10y + 9 - 5y - 6$ when $y = 3$.

Ans: _____

8. Mark spent $\frac{3}{5}$ of his weekly allowance on food. He spent $\frac{1}{4}$ of the remainder on transport and saved the rest. He saved $63.
How much was his weekly allowance?

Ans: $_____

Section C (32 marks)

There are 10 questions in section. All working must be shown clearly. Number of marks available is shown in brackets [ ] at the end of each question or part-question.
The use of calculators is allowed.

9. A group of students took part in a quiz. $\frac{2}{5}$ of the students were boys and the rest were girls. $\frac{1}{6}$ of the boys and $\frac{2}{9}$ of the girls were prize winners. What fraction of the students were prize winners?
Give your answer in the simplest form.

Ans: _____ [2]

10. James and his two friends went for a buffet. How much was their total bill including the GST of 9%?

Mookata Buffet
Eat All You Can!
$24.00 per person
(Price excludes 9% GST)

Ans: $ _____ [2]

11. Mark gave 30% of his salary to his parents. His parents received $1080..
What was Mark's salary?

Ans: $_____ [2]

12. Mr Tan had a sum of money. He spent $335 on groceries and $\frac{4}{7}$ of the remainder on his utility bill. He then had $\frac{1}{4}$ of the sum of money left.
How much money did he spend on his utility bill?

Ans: _____ [3]

13. A bakery sells muffins in four flavours. The table below shows the number of muffins sold in April.

Flavours	Number of muffins sold in April
Oreo	139
Chocolate	216
Pandan	75
Vanilla	?

(a) 14% of the muffins sold in April were vanilla muffins. How many vanilla muffins were sold in April?

(b) The number of Oreo muffins sold in May increased to 191.
What is the percentage increase in the total number of muffins sold in May?

Ans: a)_____ [2]

b)_____ [2]

14. At an IT fair, $\frac{3}{5}$ of the people who attended were university students. $\frac{1}{3}$ of the reminder were attended by polytechnic students and the rest were adults. There were 275 university and polytechnic students who attended the IT fair. How many people attended the IT fair?

Ans: _____ [3]

15. A ruler costs y cents. An eraser costs 25 cents less than the ruler.

(a) What is the cost of 4 rulers and an eraser? Give your answer in terms of y in the simplest form

(b) Each ruler costs \$1.10. Peter needs \$1.60 more to buy 4 rulers and an eraser. How much money does he have?

Ans: a) _____ [2]

b) _____ [2]

16. Pete and Thomas saved the same amount of money in June and July. Pete saved 80% of his money in June and the rest in July. Thomas saved the same amount of money in June and July. Thomas saved $252 more than Pete in July. How much money did they save in June and July altogether?

Ans: _____ [3]

17. Alice and Susan bought some cupcakes. Each of them spent $72. Susan bought 8 more cupcakes than Alice because she used a coupon that gave her a 20% discount.

(a) What was the price of each cupcake without the discount?

(b) How many cupcakes did Susan buy?

Ans: a)_____ [3]

b)_____ [2]

18. Mr Lee spent \$3520 on a laptop and $\frac{3}{7}$ of her remaining money on a printer. He had $\frac{2}{9}$ of his original sum of money left.

(a) What fraction of his original sum of money did he spend on the laptop?

(b) How much money did he have at first?

Ans: a) _____ [2]

b) _____ [2]

YEAR : 2025
LEVEL : PRIMARY 6
SCHOOL : ANGLO-CHINESE PRIMARY SCHOOL
SUBJECT : MATHEMATICS
TERM : TOPICAL TEST 1

(SECTION A)

Q1	4	Q2	3	Q3	4	Q4	4	Q5	2

(SECTION B)

Q6	$\frac{0.8}{100} = \frac{8}{1000} = \frac{1}{125}$	Q7	10 x 3 = 30 6 x 3 = 15 30 + 9 – 15 – 6 = 18
Q8	63 ÷ 3 = 21 21 x 4 = 84 2u = 84 1u = 42 42 x 5 = $210		

SECTION C

Q9	Boys = $\frac{1}{6} \times \frac{2}{5} = \frac{1}{15}$ Girls = $\frac{2}{9} \times \frac{3}{5} = \frac{2}{15}$ Total = $\frac{1}{15} + \frac{2}{15} = \frac{3}{15} = \frac{1}{5}$		Q10	$\frac{24}{100}$ x 9 = 2.16 2.16 x 3 = 6.48 24 x 3 = 72 72 + 6.48 = $78.48
Q11	$\frac{1080}{30}$ x 100 = $3600		Q12	$\frac{1}{4} = 3u$ $\frac{4}{4} = 12u$ 12u – 7u = 5u 335 ÷ 5 = 67 67 x 4 = $268
Q13	a)	216 + 139 + 75 = 430 100 – 14 = 86 430 ÷ 86 = 5 5 x 14 = 70	Q14	Remainder = $1 - \frac{3}{5} = \frac{2}{5}$ Poly = $\frac{1}{3} \times \frac{2}{5} = \frac{2}{15}$ Uni + Poly = $\frac{3}{5} + \frac{2}{15} = \frac{11}{15}$ 11u = 275 1u = 275 ÷ 11 = 25 15u = 25 x 15 = 375
	b)	430 + 70 = 500 191 – 139 = 52 $\frac{52}{500}$ x 100 = 10.4%		
Q15	a)	Eraser = y – 25 4 x y = 4y 4y + y – 25 = (5y – 25)c	Q16	50 – 20 = 30 30% = 252 100% = $\frac{252}{30}$ x 100 = 840 840 x 2 = $1680
	b)	1.10 – 0.25 = 0.85		

		1.1 x 4 = 4.4 4.4 + 0.85 = 5.25 5.25 – 1.60 = $3.65			
Q17	a)	80% = 72 100% = $\frac{72}{80}$ x 100 = 90 90 – 72 = 18 18 ÷ 8 = 2.25	Q18	a)	$\frac{2}{9}$ = 4u $\frac{1}{9}$ = 2u $\frac{9}{9}$ = 18u 18u – 7u = 11u = $\frac{11}{18}$
	b)	72 ÷ 2.25 = 32 32 + 8 = 40		b)	3520 ÷ 11 = 320 320 x 18 = $5760

END