

Contents

3A

Sample

1. 5-digit numbers	2
2. Addition	4
3. Subtraction	6
4. Mixed operations of addition and subtraction	8
5. Metre and centimetre (Revision)	10
6. Kilometre and millimetre	12
7. Hong Kong Money (Revision)	14
8. Multiplication (I) (Revision)	16
9. Multiplication (II)	18
10. Multiplication (III)	20
All-round Booster I	22
11. Division (I) (Revision)	26
12. Division (II)	28
13. Division (III)	30
14. Year, month, day and week (Revision)	32
15. Hour and minute (Revision)	34
16. Second	36
17. Angles and right angles (Revision)	38
18. Parallel and perpendicular lines	40
19. Quadrilaterals (Revision)	42
20. Parallelograms	44
All-round Booster II	46
Splendid Olympiad Skills	50





Visit www.popularlearning.com.hk for Solution PowerPoints on challenging questions.



Make your choice


Write down the letter of the correct answer in the .

- What is the approximate result of 3×689 ?
 A. 1800 B. 2100 C. 2400 D. 2700 
- Which of the expressions below gives an answer not less than 3000?
 A. 4×616 B. 594×5 C. 9×307 D. 473×7 

- A box of oatmeal weighs 368 g originally. Boxes in extra size of 448 g are launched. What is the total weight of 3 extra size boxes of oatmeal in g?

A. 1344 g B. 1324 g
 C. 1104 g D. 1084 g



- Shirley needs to pay 496 dollars for ballet lessons each month. How much does she need to pay for the lessons over half a year?
 A. 1488 dollars B. 2480 dollars
 C. 2976 dollars D. 3968 dollars 

- Jackie's home is 539 m away from a park. She ran back and forth between the two places once and then took a rest. She ran back and forth once more after the rest. How long did she run in total?

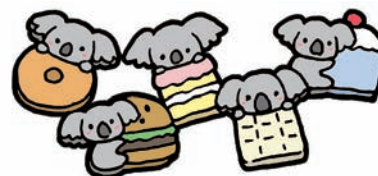
A. 1078 m B. 1617 m C. 2156 m D. 2695 m 

- The table below lists the number of coupons owned by each child. 

Child	Jimmy	Maggie	John	Jenny
No. of coupons	1459	1324	1387	1247

There are 5 page holders in a set. Each page holder required 265 coupons to exchange for. How many children above has/have enough coupons to get a set of page holders?

A. 1 B. 2
 C. 3 D. 4





Answer the following questions.

7. Below is the buffet price list of a hotel.

Buffet price list		
Time period	Lunch	Dinner
Adult	168 dollars	298 dollars
Child	84 dollars	149 dollars

Adult holders of discount coupon can get a 'Buy 2 get 1 free' offer.

- (a) Father went to the hotel with 5 colleagues for dinner buffet. He had 2 discount coupons. How much did they have to pay in total? (Show your working)

- (b) If they went for the lunch buffet, they would have to pay a total of _____ dollars.

8. Rachel placed 5 pots of violets with even separation beside the garden.




What is the distance between A and B in cm? (Show your working)



Make your choice

Write down the letter of the correct answer in the .

- What number should be added to the greatest 3-digit number to get the smallest 4-digit odd number?
A. 1 B. 2 C. 3 D. 4 
- Henry has a number card. He knows which of the two numbers is smaller without comparing the digits in the tens place and the units place. Which of the following is Henry's card?
A.

55 888
55 859

 B.



71 893
71 871

 C.




24 678
24 648

 D.

40 659
40 895


- In the number 'sixty thousand, one hundred and thirty', digits in which two places are '0's?
A. Thousands and hundreds B. Hundreds and tens
C. Thousands and units D. Hundreds and units 
- Below is a 5-digit number. If the digits in the thousands place and the hundreds place are switched, the difference between the values of the two digits becomes 1400. What is the number in the

A. 3 B. 5 **4**

C. 6 D. 7 **2** **8** **9** 
- A paper box weighs 645 g. After putting in a soup bowl with a lid, the total weight becomes 5608 g. The lid of the bowl weighs 1784 g, what is the weight of the bowl itself?
A. 3179 g B. 3824 g C. 4469 g D. 4963 g 
- A large private housing estate was built in 2 stages. 1438 flats were built in the first stage; the number of flats built in the second stage was 979 more than that in the first stage. How many flats are there in the housing estate in total?
A. 1897 B. 2417 C. 3396 D. 3855 





7. What is the total value of 699 silver-coloured round coins that have the greatest value?
 A. 3055 dollars B. 3095 dollars C. 3455 dollars D. 3495 dollars

8. Danny has 2189 dollars, and Sunny has 1305 dollars. They group their money to buy a game console which costs 3149 dollars. Which of the following game discs can they buy with their remaining money?



- A. ① only B. ① or ③ only C. ② or ③ only D. ①, ② or ③

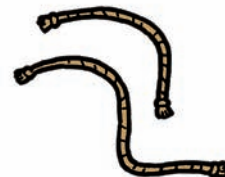
9. A carton contains 4 dozen boxed juice. How many boxed juice are there in 8 cartons?
 A. 32 boxes B. 48 boxes C. 324 boxes D. 384 boxes

10. Mike, Annie and Cindy each has an amount between 300 and 700 dollars. Mike has 3 notes of the same value; Annie has 8 notes of the same value and Cindy has 5 notes each with a different value. Which of the following is not correct?

- A. Mike has 300 dollars.
 B. Annie has eight 20-dollar notes.
 C. Cindy has 680 dollars.
 D. Annie's money can be exchanged for four 100-dollar notes.

11. Which of the following groups of ropes has a total length of 100 cm?

Rope A	Rope B
A. 720 mm	28 cm
B. 467 mm	53 cm
C. 385 cm	615 mm
D. 687 mm	213 mm



12. Which of the following may be the distance between Hong Kong and Guangzhou?

- A. 5280 km B. 230 km C. 3 km D. 4690 m



Answer the following questions.

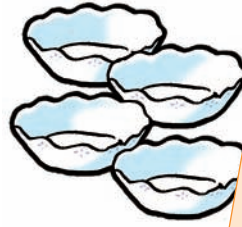
13. One point is earned for every dollar spent with a credit card when shopping.



Dehumidifier
3345 dollars



Microwave oven
2760 dollars



Microwave plates
34 dollars each






- (a) Mother has 3462 points on her credit card. She buys 1 microwave oven and 1 dehumidifier with the credit card. How many points are there in her credit card now? (Show your working)

- (b) It takes 2250 points to exchange for a set of towels and 7288 points for a set of cutlery. After exchanging for a set of cutlery, Mother [★] has / does not have enough points to exchange for a set of towels. [★] Circle the answer
- (c) Father's total points are less than 26 000 but more than 25 000. The digits in the hundreds place, the tens place and the units place of his points are even numbers greater than 6. Father has _____ points.

14. The fare of New Territories taxis is 16 dollars 50 cents for the first 2 km, and 1 dollar 30 cents for every 200 m afterwards.

- (a) Mr. Chan took a taxi from home to Town Hall. The taxi travelled a distance of 2 km 57 m or _____ m.
- (b) His taxi fare was _____ dollars _____ cents.



- (c) Mrs. Li took a taxi from home. After arriving at her destination, she gave the taxi driver a  note and the change was     . Her taxi fare was _____ dollars _____ cents.

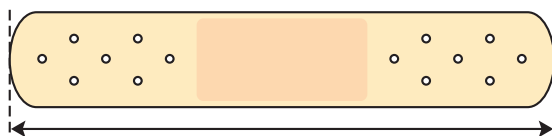


15. In yesterday's charity walk, 1895 walkers were below 20 years old and 7209 walkers were 20 years old or above.



- (a) 639 walkers were 65 years old or above. How many walkers were below 65 years old? (Show your working)

- (b) The total distance of the charity walk was 12 [✱] km / m . [✱] Circle the answer
- (c) Sunny slipped on the floor accidentally during the charity walk. Then he had a band-aid over his wound as shown below. Measure the length of the band-aid with a ruler. It is _____ mm long.



16. Mary and her family had lunch at a Chinese restaurant on Sunday. Their dim sum record is shown on the right.

Dim sum	Small dish	Medium dish	Large dish
Price	11 dollars 80 cents	16 dollars	19 dollars

Small	○				
Medium	○	○		○	○
Large		○			

- (a) The total cost of the medium dishes they ordered was _____ dollars.
- (b) There are 3 shrimp dumplings in a basket and 4 pork dumplings in a basket. The restaurant sold 629 baskets of shrimp dumplings and 475 baskets of pork dumplings today. How many pieces of shrimp dumplings were sold today? (Show your working)

- (c) The number of shrimp dumplings sold today is [✱] more / less than pork dumplings by _____ piece(s). [✱] Circle the answer



Splendid Olympiad Skills

Sample

Tree-planting problems



Professor, the distance between two trees is 100 m. Father plants one tree every 20 m in between. Why is there a total of 6 trees instead of 5?

Abby, this is called a **tree-planting problem**. There are a few different situations in tree-planting problems; your question comes under one of them.



Planting trees at even intervals in length along an open-ended road results in the following situations:

- ① Trees are planted at both ends of the road, number of trees = number of intervals + 1



5 trees
4 intervals

- ② No trees are planted at both ends of the road, number of trees = number of intervals - 1



3 trees
4 intervals

- ③ A tree is planted at one end of the road with no tree at the other end, number of trees = number of intervals



4 trees
4 intervals

Number of intervals

= **Length of the road** \div **Shortest distance between two trees**

In addition, when trees are planted at even intervals in length along a closed road, number of trees = number of intervals.

Mathematics Skills Booster

Mock Test (3A)

Date: _____

Marks: _____

Sample

Student Name: _____ Class: _____ Student No. : _____

Part A (60 Marks)

Write down the letter of the correct answer in the .

1. A computer is sold at 6978 dollars, which is 1909 dollars cheaper than the original price. The price of a TV set is 1083 dollars higher than the original price of the computer. What is the price of the TV set?
- A. 6152 dollars B. 7804 dollars C. 8061 dollars D. 9970 dollars

2. A supermarket had 3947 bags of tomato flavoured potato chips, which were 1483 bags fewer than cheese flavoured chips. After selling some cheese flavoured chips, 2095 bags of it were left. How many bags of cheese flavoured potato chips did the supermarket sell?



3. To find the largest number among 63 749, 63 656 and 63 710, digits in which place are not needed to be compared?
- A. thousands place B. hundreds place
C. tens place D. units digit

4. Which of the numbers that can be formed from 0, 1, 2, 9 and 8 is closest to 20 000?
- A. 19 028 B. 19 820 C. 20 189 D. 20 981

5. If two drama tickets are bought, the third ticket can be bought at half price. Johnny and 5 friends buy their drama tickets as a group and select seats in the 9th row. How much do they need to pay in total?

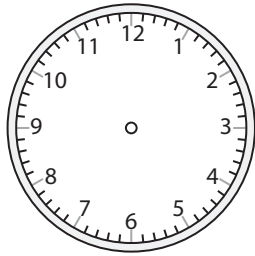
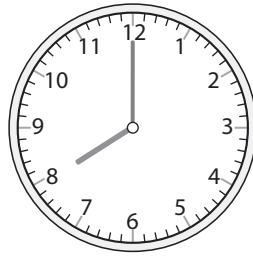
- A. 576 dollars B. 480 dollars
C. 384 dollars D. 360 dollars

Drama Tickets	
Row	Price (dollars)
1 – 10	96
11 – 25	72
26 – 40	48



Part B (40 Marks)**Answer the following questions.**

31. Karen works part-time at the capsule toy store. Her hourly wage is 38 dollars.

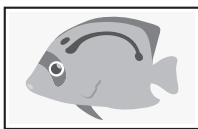
- (a) She worked 9 hours today. Draw on the clock on the left the time she started working today. [2 marks]

**Starting time****Finishing time**

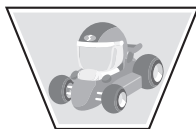
- (b) What is her total wage today? (Show your working) [4 marks]

- (c) A customer at the capsule toy store gave Karen 3 , he could exchange it for . [2 marks]

32. Mandy collected many stickers, some of them have the following shapes and sizes.



Sticker P



Sticker Q



Sticker R



Sticker S

- (a) Stickers P and R each has _____ pair(s) of perpendicular lines. [2 marks]
- (b) Sticker _____ has only 1 pair of parallel lines. [2 marks]
- (c) Sticker _____ is not a type of parallelogram. [2 marks]