Term 2 – Lesson 1

1. It took Mary 50 days to read a 3000-page book. Every day, she read 2 more pages than the previous day. How many pages did she read on the first day?
2. Every day, Debbie could read 32 pages of her favorite book Harry potter while Elaine could read 40 pages. Debbie started to read 2 days before Elaine. How many days would Elaine need so that she could read 24 pages more than Debbie?
3. A group of students went together for a trip. If 5 students share one hotel room, 14 students won’t have a room to stay. If 7 students stay in one room, there will be 4 vacant beds. How many rooms does the hotel have? How many students are staying in the hotel?
4. Ali has a total of 80 pens and pencils. If he exchanges every 5 pens for 2 pencils, he will have 44 pencils. How many pens does Ali have at first?
5. Sarah had a total of 19 coins that were made up of 50 cents and 20 cents. If she exchanged all her 50 cents coins for 20 cents coins, she would have 40 coins. How many 20 cents coins did she have at first?
6. There are some ladybirds and spiders in a garden. There are 46 heads and 324 legs altogether. How many ladybirds are there in the garden?
7. A combination lock requires 3 numbers to open. The 2nd number is 5 more than the 1st number. The 3rd number is twice as large as the 2nd number. The sum of the three numbers is 95. What is the largest number?
8. The minute hand of a clock has just passed the hour hand. How long will it take for the minute hand to pass the hour hand again?
9. 1 hour B. 1 hour 4 minutes

C. 1 hour 5 minutes D. more than 1 hour 5 minutes

1. Jane has an odd number of $1.20 stamps and an even number of $2.50 stamps. Which of the following cannot be the total worth of his stamps?
2. $35.80 B. $26.00 C. $38.20 D. $27.50
3. 100 children went to a bookstore. 44 of them bought Poster A. 43 of them bought Poster B. 42 of them bought Poster C. 18 of them bought Poster A and Poster B. 15 of them bought Poster A and Poster C. 12 of them bought Poster B and Poster C. 5 of them bought all the 3 posters. How many of them did not buy any Poster?
4. There are 100 children at a party. 90 children are given a red sweet each, 85 children are given a yellow sweet each, 80 children are given a blue sweet each and 75 children were given a green sweet each. At least how many children who got all the four types of sweets?
5. If each child gives a farewell gift to every other child in a party, then the total number of gifts would be 56. How many children are there in the party?
6. 56 dancers were given an equal number of balls to play. However, 14 of them did not turn up. As a result, the remaining dancers had got additional 3 balls each. How many balls did the dancers have altogether?
7. Teachers are giving out chocolates for Children’s day. Each boy in the class was supposed to receive 8 chocolates. However, when 15 girls joined the class, each pupil only received 6 chocolates and there were 14 chocolates left. How many boys were there in the class?
8. If 72 is subtracted from the triple of a number, the result is one third of the number. What is the number?
9. Mr Soh is 6 times as old as his daughter now. In 14 years’ time, their total age will be 63. How old is Mr Soh now?
10. What is the sum of all the odd numbers from 11 to 48?
11. Shannon bought 3 books at $7 each. She then sold them at $9 each. She bought another 8 books at $6 each and sold them at $3 each. Did Shannon lose money or make money and how much?
12. Andy’s weekly allowance is $4 more than Sarah’s. Each of them saves $15 a week and spends the rest. When Andy has spent $60, Sarah has spent only $20. What is Andy’s weekly allowance?
13. Place 1 to 8 into the box below so that the 3 numbers in each straight line adds up to 13. Use each number only once.

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1. Palm trees are planted along a pavement at an equal distance of 5 m away from each other. How far is the 5th tree from the 10th tree?
2. 45 children received some sweets. Each boy received 6 sweets and each girl received 5 sweets. The boys received 6 more sweets than the girls in total. How many girls were there?
3. Sandy spent 6 days making bookmarks for her students. Each day, she managed to make 2 bookmarks more than the day before. If she made a total of 72 bookmarks, how many bookmarks did she make on the last day?
4. The seats on a children merry-go-round are numbered in the sequence 1, 2, 3, … On this merry-go-round, Peter was sitting on seat #11, exactly opposite Maria, who was sitting on seat #4. How many seats are there on this merry-go-round?
5. Mary bought a total of 26 apples and oranges for $28. She paid $2 for each apple and $2 for every 3 oranges. How many oranges did she buy?
6. Clara played a computer game in which she fired rockets at planes. For every rocket that hits an enemy plane, she gets 7 points. For every rocket that hits one of her own planes, she loses 2 points. Given that Clara fired 392 rockets and 65 of them didn’t hit any plane, and at the end of the game, she scored a total of 1650 points, how many enemy planes did she hit?
7. 280 – 276 + 272 – 268 + … + 200 – 196 = ?
8. 2017 – 1 – 2 – 3 – 4 – 5 …. – 48 – 49 – 50 = ?
9. Peter has $62 less than Nana and Sarah has $78 more than the total amount that Peter and Nana have. If Sarah has $300 more than Peter, how much money does Nana have?
10. Terrance had ½ as many stickers as Ben at first. After Terrance received 12 stickers from Ben, he now has 2/3 as many stickers as Ben. How many stickers did Terrance have at first?
11. To celebrate Children’s day, a candy shopkeeper allows children to use every 3 candy wrappers to exchange for 1 candy. If Jay buys 72 candies, what is the largest possible number of free candies can she get?
12. Mary has a total of 20 oranges and pears. If she exchanges every pear for 2 oranges, she will have 28 oranges. How many oranges and pears does she have at first, respectively?
13. The first two numbers of a number sequence are 4 and 9. From the 3rd number onwards, the numbers in this sequence are the digit in the ones place of the product of its previous 2 numbers. What is the 999th number?
14. There are 120 numbers in the following number pattern. What is the sum of the first 85 numbers?

1, 7, 6, 4, 3, 5, 1, 7, 6, 4, 3, 5, ……

1. When Rahul was born, his father was 32 years holder than his brother and his mother was 25 years older than his sister. If Rahul’s brother is 6 years older than him and his mother is 3 years younger than his father, how old was Rahul’s sister when he was born?
2. A monkey climbs 30 feet at the beginning of each hour and rests for a while when he slips back 20 feet before he starts climbing at the beginning of the next hour. If he begins his ascent at 8am, at what time will he first tough a flag at 120 feet from the ground?
3. In a chess tournament, each of the 8 players will play with every other player exactly once. How many matches will be played during the tournament?
4. John has some money to buy either 20 apples or 60 oranges. If he wants to buy an equal number of apples and oranges, how many of each type can he buy?
5. Anny has just enough money to buy 5 mangoes or 52 oranges. She can also use the same amount of money to buy 9 mangoes and 28 oranges. If she wants to buy oranges only, how many oranges can she buy?
6. How many ways are there to put 6 different books into 6 empty shelves so that there will be no empty shelf?
7. When a cup is half filled with water, it is equal to 1/5 of a jug. A jug can contain 180ml more water than a cup. How many ml can the cup contain?
8. 1st box with 1/3 sands weighs 24 grams, 2nd box with full box of sands weighs 48 grams. How much does the empty box weigh?
9. Nicole is 3 times as old as her daughter now. If her daughter’s age is 2/3 of her age in 30 years’ time, how old is Nicole now?
10. There are 77 members in the Science club. 2/3 of the number of girls is equal to 4/5 of the number of boys. How many girls are there?
11. @ @ # # = 1200 kg

@ # # # = 800 kg

# = ?

4812 : 72

7324 : 13

9417 : ?

1. Water from a container can fill up either 84 glasses or 112 cups. Adam used some water from the container to fill up 39 glasses and 35 cups. How many more cups can the remaining water fill?
2. Which letter replaces the question mark?

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| A |  |  |  |
| G | I |  |  |
| C | E | L |  |
| F | D | G | ? |

1. An integer is divisible by 5, 6, 8 and 9. This integer must always also be divisible by:
2. 28 B. 360 C. 720 D. 5689
3. On a class test, everyone took the test and everyone got a different grade. Ali’s grade was both the 10th highest and the 10th lowest grade in the class. How many students were in this class?
4. 10 B. 19 C. 20 D. 21
5. A triangle can intersect a circle in at most
6. 6 points B. 5 points C. 4 points D. 3 points
7. To celebrate Children’s day, supermarket allows the customers who buy every 4 bottles of Orange juice to return the bottles in exchange for 1 free bottle of orange juice. If teacher Mary want to buy 42 bottles of orange juice for her students, what is the least possible number of bottles that she needs to buy?
8. If 12 identical pencil boxes and 27 identical rulers cost $57, what is the total cost for 4 such pencil boxes and 9 such rulers?
9. What does the reflection of the given combination look like in the water

U4P15B7

1. What should be the value that replaces the question mark?

?kg

10kg

8kg

6kg

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1. What number should replace the question mark?

4

8

3

1

8

?

4

7

9

9

3

1

2

6

3

7

4

2

1. A man has 3 sons, the sum of the sons’ age is equal to his age. The total age of all of them at present is 56. What is the difference between the man’s age and the sum of his sons’ age after 6 years?
2. How many even numbers are there between 110 and 300?
3. 94 B. 95 C. 96 D. 100
4. If today is Thursday, what day was it 25 days ago?
5. Four years ago, Cindy’s mother was 4 times as old as Cindy. Her mother will be 3 times as old as Cindy in 2 years’ time. How old are Cindy and her mother respectively now?
6. A girl is carrying a basket of oranges. Each time she met her friend, she gives half of her oranges to her friend and then eats 3 herself. After she met 4 of her friends on the way, she had 4 oranges left. How many oranges were there in the basket at first?
7. There are 20 trees alongside a circular garden. The distance between every 2 nearest trees is the same. It took Sarah 3 minutes to run from the 1st tree to the 5th tree. Which tree will she just pass by if she starts running from the 1st tree and runs for 24 minutes at the same speed?
8. A spider has 8 legs, a dragonfly has 6 legs and 2 pairs of wings. A cicada has 6 legs and 1 pair of wings. There are altogether 16 animals with a total of 104 legs and 18 pairs of wings. How many spiders, dragonflies and cicadas are there respectively?
9. The palindrome after 9689 is \_\_\_\_\_\_\_\_\_\_\_

(a palindrome is a number like 2, 22, 121, 7557, 9999, i.e. it’s the same when you write it backwards)

1. How many shortest routes are there from A to B by passing through X?

A

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B

1. The average of 10 consecutive odd numbers is 100. What is the greatest number among the 10 numbers?