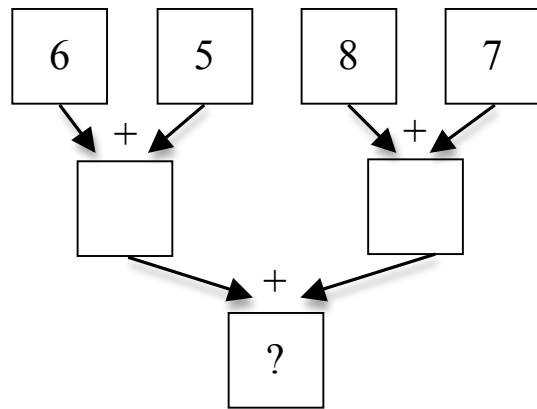


ASD-E Lou MacNarin Math



Please write your answers on the answer sheet provided. You can keep this test when you are finished.

1. What is the missing number in the sequence:
1500, 2000, _____, 3000, 3500
(a) 2005 (b) 2050 (c) 2500 (d) 25 (e) 3500
2. The double of half of 20 is equal to:
(a) 40 (b) 80 (c) 10 (d) 20 (e) 30
3. The next group of numbers in the sequence is: BCDE, CDEF, DEFG, _____
(a) EGFH (b) DFGH (c) EFGH (d) DGHF (e) EFHG
4. We put the numbers 5,6,7 and 8 into an adding machine, as shown below:



What is the answer in the box with the question mark?

- a) 26 (b) 27 (c) 28 (d) 29 (e) 30

5. The product of $10 \times 10 \times 10$ is
- (a) 300 (b) 100 (c) 200 (d) 1000 (e) 10 000
6. How many even numbers are there between 102 and 120?
- a) 10 (b) 6 (c) 7 (d) 8 (e) 9
7. The first even number is 0, the second is 2, the third is 4, the fourth is 6, and the fifth is 8... what will be the 15th even number?
- (a) 24 (b) 28 (c) 30 (d) 26 (e) 32
8. A number multiplied by 4 gives 16. The same number subtracted from 5 gives?
- a) 0 (b) 1 (c) 2 (d) 3 (e) 4
9. Leah writes the following math sentence. Then she covers two digits with a star sticker. The two digits she covers are the same. :

$$5 \star + 6 \star = 126$$

Which digit is under the star sticker?

- (A) 2 (B) 4 (C) 5 (D) 7 (E) 8
10. If the digits 1, 2, 3 and 4 are all used to form 4-digit natural numbers, how many different numbers can be formed?
- (a) 12 (b) 4 (c) 24 (d) 8 (e) 16
11. What is the number of faces of a cube?
- a) 4 (b) 5 (c) 6 (d) 7 (e) 8

12. When half of 24 is divided by the double of 3, the answer is

- (a) 4 (b) 3 (c) 6 (d) 5 (e) 2

13. The next number in the sequence: 10, 20, 18, 36, 34, ... is

- (a) 32 (b) 72 (c) 68 (d) 48 (e) 64

14. $(7 \times 4) + (2 \times 5)$ is equal to

- (a) 29 (b) 38 (c) 34 (d) 28 (e) 31

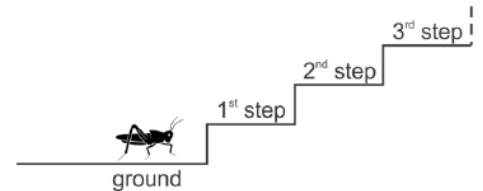
15. There are 29 students in a class. There are 12 students that have a sister and 18 that have a brother. Erin, Tysan and Lilly have no brother and no sister. How many students in that class have both a brother and a sister?

- (a) 0 (b) 1 (c) 3 (d) 4 (e) 6

16. In Mme. Roy's class there are twice as many girls as boys. Which of the following numbers may be equal to the number of students in this class?

- (a) 25 (b) 26 (c) 27 (d) 28 (e) 29

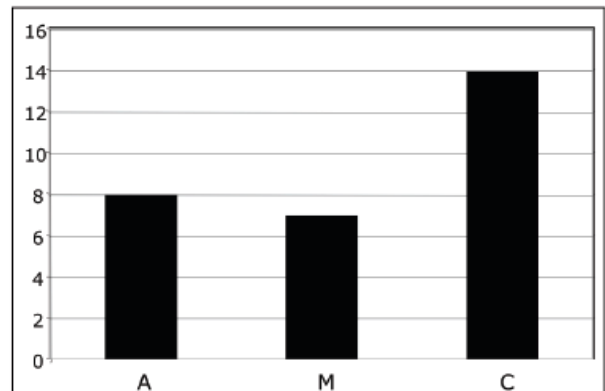
17. A grasshopper wants to climb a staircase with many steps. She can make only two kinds of jumps: three steps up, or four steps down. Beginning at the ground level, at least how many jumps will she have to make in order to take a rest on the 22nd step?



- (a) 7 (b) 9 (c) 10 (d) 12 (e) 15

18. The bar graph shows the number of books that were read by Alexandra (A), Chris (C) and Matthew (M) last week. Alexandra read how many fewer books than Chris?

- (a) 6 (b) 7 (c) 8
(d) 9 (e) 10



19. Bruce forms two numbers with the digits 1,2,3,4,5 and 6. Both numbers have three digits, and each digit is used only once. Bruce adds these two numbers together what is the greatest answer he can get?

- (a) 1173 (b) 999 (c) 1083 (d) 1221 (e) 975

20. Alex has 20 small cars of different colours; yellow, green, blue and black. 17 of the cars are not green, 5 are black, 12 are not yellow. How many blue cars does Alex have?

- a) 3 (b) 4 (c) 5 (d) 8 (e) 15

21. In the picture below, the distance between A and C is 10m, the distance between B and D is 15m and the distance between A and D is 22m. What is the distance between B and C?

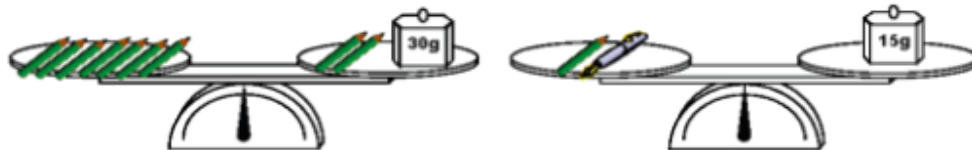


- (a) 1m (b) 2m (c) 3m (d) 4m (e) 5m

22. In my classroom there are 6 tables with 4 chairs each, 4 tables with 2 chairs each, and 3 tables with 6 chairs each. If I need 27 chairs for my students to sit on, how many chairs will be empty?

- (a) 23 (b) 50 (c) 27 (d) 24 (e) 48

23. The picture below shows 9 pencils and a weight of 30g on a balanced scale. The picture on the right shows a pencil (the same as the ones on the picture to the left), a pen and a weight of 15g. Both scales are balanced. How many grams does the pen weigh?



- (a) 7g (b) 8g (c) 9g (d) 11g (e) 13g

24. There are two clocks in Emma's room. One of them is 25 minutes behind. It is now showing 7:40. The second clock is 15 minutes ahead. What time is it showing?

- (a) 7:15 (b) 7:25 (c) 7:55 (d) 8:05 (e) 8:20

25. Mario goes apple picking. He says to his friend: "If I had picked up twice as many apples as I really did, I would have 24 apples more than I have now." How many apples did Mario pick up?

- a) 48 (b) 24 (c) 36 (d) 40 (e) 26

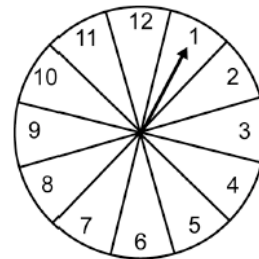
26. What is $\frac{1}{10}$ of 120 ?

- a) 10 (b) 12 (c) 1200 (d) 6 (e) 60

27. 16 quarters = ? dimes (a quarter = 25¢ and a dime = 10¢)

- a) 160 (b) 16 (c) 4 (d) 40 (e) 20

28. Erin has made a circular spinner like the one shown in the diagram. If she spins the spinner once, what is the probability that she will get a number that is a multiple of 3?



- a) $\frac{1}{2}$ (b) $\frac{1}{3}$ (c) $\frac{1}{4}$ (d) $\frac{1}{6}$ (e) $\frac{1}{12}$

29. What is the length of the side of a square if its perimeter measures 100m?

- a) 25m (b) 10m (c) 50m (d) 20m (e) 26m

30. How many seconds are in 5 minutes?

- a) 50 (b) 100 (c) 200 (d) 300 (e) 500

31. If 2 hens lay 12 eggs in 3 days, how many eggs will 1 hen lay in $1\frac{1}{2}$ days?

- (a) 1 (b) 2 (c) 3 (d) 4 (e) 5

32. Andrew cleans his room 3 times faster than Emily. If Emily takes 36 minutes to clean her room, how much time will they take together to clean the same room?

- a) 9 minutes (b) 8 minutes (c) 18 minutes (d) 11 minutes (e) 10 minutes

33. At breakfast this morning, we served 1000ml of orange juice to 10 people. Approximately how many millilitres of juice would we need to serve 30 people?

- a) 3500ml (b) 20 000ml (c) 30 000ml (d) 2000ml (e) 3000ml

34. Six kids ate 20 cookies altogether. Andrew ate one cookie, Betty ate two cookies, Carl ate three cookies. Danielle ate more cookies than any other kid. What is the smallest possible number of cookies that Danielle ate?

- a) 3 (b) 4 (c) 5 (d) 6 (e) 7

35. My mother hangs the laundry outside on a clothesline. She wants to use as few pegs as possible as shown in the picture. How many pegs does she need for 13 towels?

- a) 11 (b) 12 (c) 13
(d) 14 (e) 15

