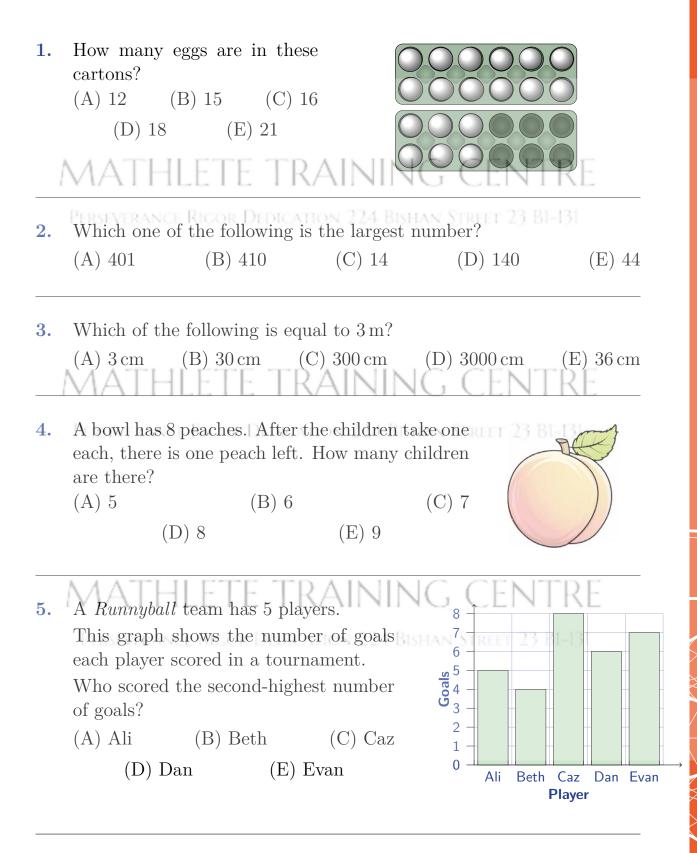
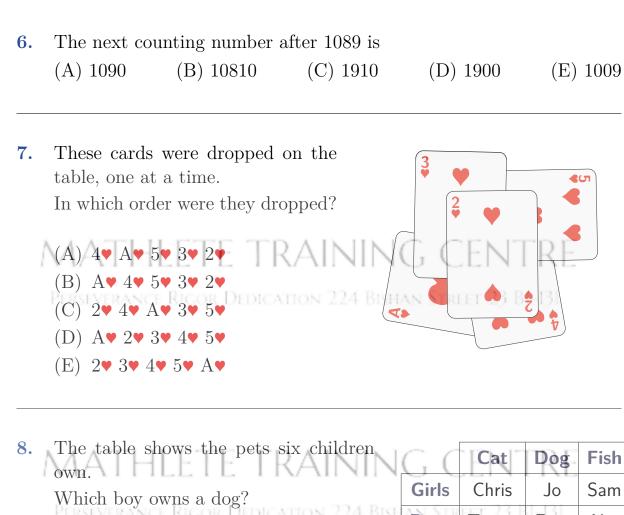


Middle Primary Division

Questions 1 to 10, 3 marks each



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- Sam Boys Finn Teejay Alex (B) Chris (A) Alex (C) Finn (D) Jo (E) Teejay
- 9. Sophia is at the corner of 1st Street and 1st Avenue. Her school is at 5th Avenue the corner of 4th Street and 3rd Avenue, RIGOR DEDICATION 224 4th Avenue To get there, she walks treet eet-(A) 4 blocks east, 3 blocks north S 3rd Avenue (B) 3 blocks west, 4 blocks north 2nd st reet (C) 4 blocks west, 2 blocks north 2nd Avenue (D) 3 blocks east, 2 blocks north Brd (E) 2 blocks north, 2 blocks south 1st Avenue

reet

4th

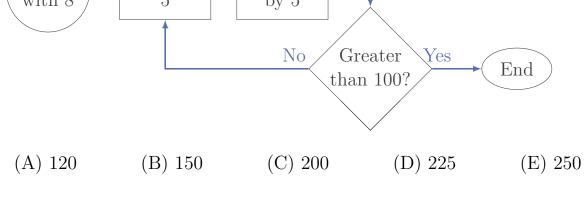


10. Jake is playing a card game, and

these are his cards.

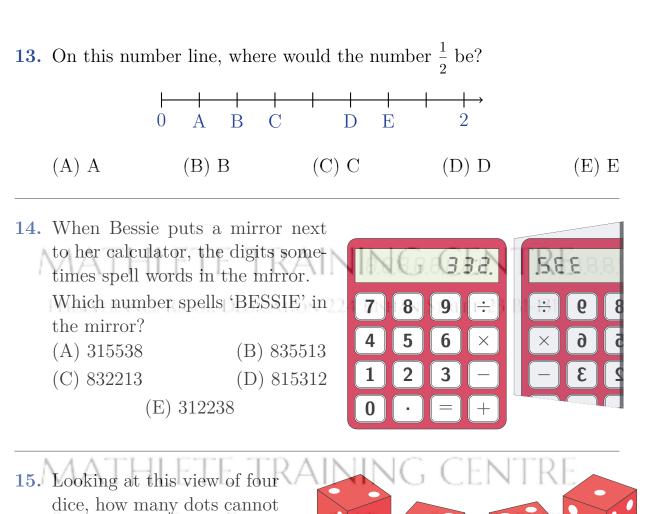
Elena chooses one card from Jake at random. Which of the following is Elena most likely to choose? (A) a heart $(\mathbf{\bullet})$ (B) a diamond (\blacklozenge) (C) a spade (\spadesuit) (D) a picture card (J, Q or K) (E) an even-numbered card Questions 11 to 20, 4 marks each 11. In Jacqui's puzzle, a number is put in ? each box. In each circle, the four numbers must add to 13. 1 Which number goes in the top box? 5 7 3 (D) 5 (E) 6

12. Noah follows the instructions in this flow chart. What number does he end with? LETE TRAIN CENTRE Start Subtract Multiply by 5



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16. A pencil costs 25 cents and a ruler costs 80 cents.
With \$5 I bought one ruler and as many pencils as I could afford.
What change did I get?
(A) 25 cents
(B) 20 cents
(C) 15 cents
(D) 10 cents
(E) 5 cents

17. 27 identical cubes are used to make this $3 \times 3 \times 3$ cube. How many more are needed to make a $4 \times 4 \times 4$ cube? (A) 1 (B) 25 (C) 27 (D) 36 (E) 37

ance Rigor Dedicatio

(E) 45

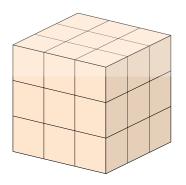
(C) 32

(B) 28

be seen?

(D) 36

(A) 21

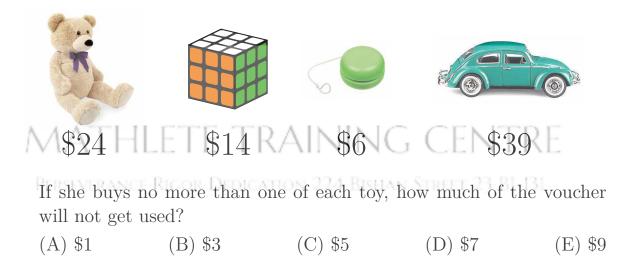


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4

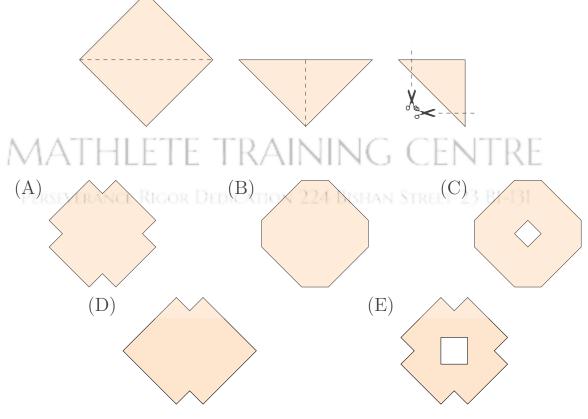


18. Meena has a \$50 gift voucher to spend in a toyshop, but they won't give change from the voucher. Here is a short list of toys she would like. She tried to spend as much of the \$50 as possible.



19. A square piece of paper is folded twice along its diagonals, as shown in the diagram. Two corners are then cut off. When the paper is unfolded, what will it look like?

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20. It takes Preeti 30 minutes to walk to school.

Sometimes she goes on her bike and she cycles twice as fast as she walks.

Occasionally, her mother takes her in the car, which goes three times as fast as her bike. How many minutes does it take to get to school in the car?

(A) 2 (B) 4 (C) 5 (D) 10 (E) 15

Questions 21 to 25, 5 marks each 21. In my dance class, 14 students are taller than Bob, and 12 are shorter than Alice. Four students are both shorter than Alice and taller than Bob. How many students are in my dance class? (A) 22 (B) 24 (C) 26 (D) 28 (E) 30 22. My sister and I are playing a game where she picks two counting

122. Wy sister and I are playing a game where she plexs two counting numbers and I have to guess them. When I tell her a number, she multiplies my number by her first number and then adds her second number.
When I say 15, she says 50. When I say 2, she says 11.
If I say 6, what should she say?
(A) 23 (B) 27 (C) 35 (D) 41 (E) 61

- 23. A year 6 student saved 100 cents in 5 days, each day saving 5 cents more than the previous day. How many cents did she save on the fifth day?
 (A) 20 cents (B) 25 cents (C) 30 cents (D) 40 cents (E) 50 cents
- 24. A cube has the letters A, M, C, D, E and F on its six faces. Two different views of the cube are shown.
 I place the cube on the table so that the front shows C. If I look at the back of the cube, what will I see?
 (A) D (B) E (C) L (D) U (E) F

6



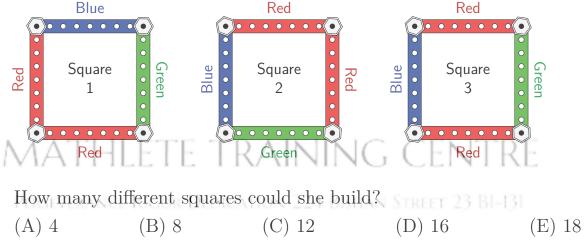


25. Shirley has six pieces of her construction kit: two red, two blue and two green. She wants to build a square using four of the pieces.

•••••		
••••	•••••••••••	•••••

Shirley considers Square 1 below to be the same as Square 2, since the colours match once Square 2 is turned over and rotated. However she considers Square 3 to be different from Square 1, since no matter how it is turned, the two red sides are always opposite, and cannot match Square 1.





For questions 26 to 30, shade the answer as a whole number from 0 to 999 in the space provided on the answer sheet.Questions 26–30 are worth 6, 7, 8, 9 and 10 marks, respectively.

26. At my local greengrocer, you take a ticket from the machine and wait until your number is called. The roll of tickets goes from 000 up to 999. When I was there last week with my neighbour, we took two tickets in a row and our two numbers added to 777. What was the next ticket number after ours?





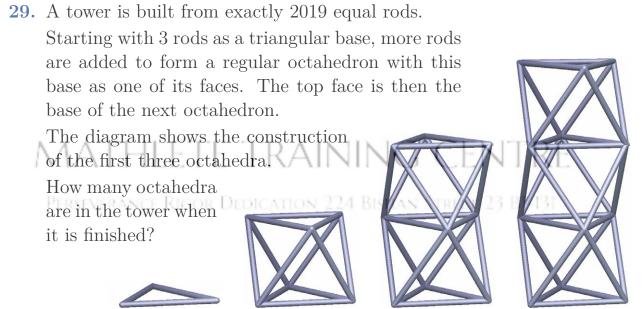
27. There are 390 children at a summer camp.

One-third of the number of girls is equal to one-half of the number of boys. How many girls are there?

28. How many of the numbers from 100 to 999 have exactly one zero digit?

MATHLETE TRAINING CENTRE

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30. John is one year older than his wife Mary. They have three children, whose ages are two years apart.

The product of John and Mary's ages is less than 2019. The product of the three children's ages is also less than 2019.

Next year both these products will be greater than 2020.

This year, what is the sum of all five ages?