

Mental Ability



Which of the following figures has a line of symmetry?











What is the value of the given statement?

- (A) 10000
- (B) 0
- (C) 2014
- (D) 2015



Find the value of $\frac{(856+167)^2+(856-167)^2}{856\times856+167\times167}$.

- (A) 2
- (B) 1
- (C) 856
- (D) 167



A die is thrown 24 times. How many times do you expect the number '4' to come up?

- (A) 6 times (B) 24 times (C) 4 times
- (D) 12 times



What must be subtracted from $14x^2 + 13x - 15$ so that the resulting polynomial is exactly divisible by 7x - 4?

- (A) 3
- (B) -3
- (C) 5
- (D) -5

1



Reasoning

(D) (

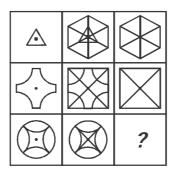
What is the missing figure in the given series?

Which set of figures is the odd one out?

(B) \(\lambda \)

(C) \(\sigma \)

Which is the missing figure in the given group?

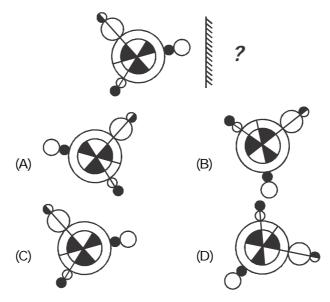


(A) \bowtie (B) \bigotimes (C) \bigotimes (D) \bigotimes

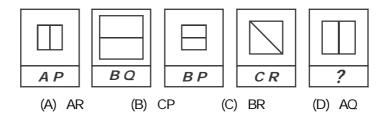




Find the mirror image of the given figure.



Which pair of letters represent the last figure?





Computers



What is the correct HTML tag for the largest heading?

- (A) <heading>
- (B) <h6>
- (C) <head>
- (D) < h1 >



What is the shortcut key to change the entered number into date format in MS-Excel 2010?

- (A) Ctrl + Shift + 1
- (B) Ctrl + Shift + 2
- (C) Ctrl + Shift + 3
- (D) Ctrl + Shift + 4



Where does BIOS is stored?

- (A) Floppy disk
- (B) RAM
- (C) Hard Disk
- (D) ROM



Which tag is used to display a picture in HTML?

- (A) <picture>(B)
- (C) <image> (D) <src>



What type of operating system is MS-Dos?

- (A) Point and click
- (B) User-friendly
- (C) Command-driven
- (D) Mac



English



Identify a rhyming word to a word which means 'a puzzling question'.

- (A) doubt
- (B) book
- (C) middle
- (D) query



Which of the following is a one-word substitution for "One who collects coins"?

- (A) Numismatist
- (B) Cartographer
- (C) A postate
- (D) Martyr



What does the word 'FATIGUE' mean?

- (A) Excitement
- (B) Weariness
- (C) Failure
- (D) Satisfaction



Which of these words drops 'In' to give its antonym?

- (A) Indulge
- (B) Inevitable
- (C) Infringe
- (D) Insurance



Which of these is an INCORRECT sentence?

- (A) You should have taken my advice.
- (B) A few water is left in the jug.
- (C) The show will be over by 2: 30 p.m.
- (D) Aastha brushes her teeth twice everyday.



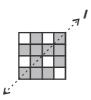


UNIFIED CYBER OLYMPIAD

<u>Solutions for Sample Questions</u> <u>class : 8</u>

Mental Ability





2. **(A)**

20142015 × 20152014 – 20142014 × 20152015

= 20142015×20152014 - (20142015 - 1)(20152014 + 1)

= 20142015 × 20152014 -(20142015 × 20152014 + 20142015 -20152014 - 1)

= -20142015 × 20152014 - 20142015 × 20152014 - 20142015 + 20152014 + 1) = 10000

3. (A) $\frac{(856 + 167)^2 + (856 - 167)^2}{856 \times 856 + 167 \times 167}$ $= \frac{2(856^2 + 167^2)}{856^2 + 167^2} = 2$

[since, $(a + b)^2 + (a - b)^2 = 2(a^2 + b^2)$]

4. **(C)** No. of times a die is thrown = 24

Probability for '4' to come up when a die is

thrown once = $\frac{1}{6}$

∴ If a die is thrown for 24 times the possibility for 4 to come up = $\frac{1}{6} \times 24$ = 4 times 5. **(B)** $7x-4\sqrt{14x^2+13x-15(2x+3)}$ $14x^2-8x$

Therefore, **-3** must be subtracted.

Reasoning

6. **(A)** The given series is repeating after every five shapes and the shading moves by one shape towards left. Hence, the missing shape is



7. **(D)** Count the number of lines in each figure.

4 lines 1 line 3 lines 2 lines 5 lines

3 lines 2 lines 5 lines 1 line 4 lines

1 line 3 lines 4 lines 2 lines 4 lines option (D) is the odd one out.

3. **(D)** In the given group, the figure in third column is obtained by subtracting the figures in the first column from the second column figures.

Hence, the missing figure is option (D).





10. *(A)* Line type: A - Vertical; B - Horizontal; C - Diagonal

Square type: P - Small ; Q - Large; R - medium

 \therefore The code for the last figure is AR.

Computers

- 11. **(D)** The largest heading in HTML tag is **<h1>**.
- 12. **(C)** The shortcut key to change the entered number into date format is **Ctrl + Shift + 3**.
- 13. **(D)** BIOS is stored in **ROM**.
- 14. **(B)** < img > tag will display a picture in HTML.
- 15. *(C)* MS-Dos is a *command-driven* operating system.

English

- 16. **(C)** 'A puzzling question' means riddle. The rhyming word of the riddle is **middle**.
- 17. **(A)** One who collects coins is known as **Numismatist**.
- 18. **(B)** Fatigue means weariness.
- 19. **(B)** Inevitable × Evitable

My Swy Swy

20. **(B)** Only a little water is left in the jug.