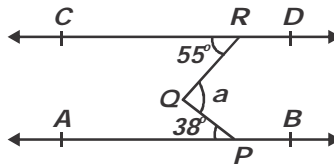


1 → What are the factors of the given expression?

$$16x^2 - 72xy + 81y^2 - 12x + 27y$$

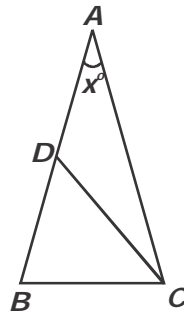
- (A) $(6x - 7y)(6x - 7y - 5)$
 (B) $(4x - 9y)(4x - 9y - 3)$
 (C) $(4x + 9y)(4x + 9y + 3)$
 (D) $(6x + 7y)(6x - 7y + 5)$

2 → In the figure $AB \parallel CD$, find the value of $\angle a$.



- (A) 93° (B) 103° (C) 83° (D) 97°

3 → In $\triangle ABC$, $AB = AC$ and D is a point on AB such that $AD = DC = BC$. Find $\angle BAC$.



- (A) 45° (B) 36° (C) 72° (D) 90°

4 → When a number 984 is added to another 3 digit number $4p3$, we get a four digit number $13q7$, which is divisible by 11. What is the value of $p + q$?

- (A) 10 (B) 11 (C) 12 (D) 13

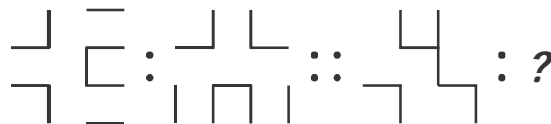
5 → If 5 persons weave 180 shawls in 12 days, how many shawls will 6 persons weave in 15 days?

- (A) 260 (B) 370 (C) 270 (D) 360

Class – IX

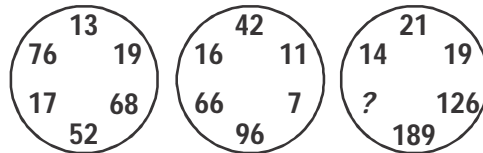
Reasoning

6 → Which of the following figure replaces second pair same as first pair?



- (A)
- (B)
- (C)
- (D)

7 **Which number replaces the question mark?**

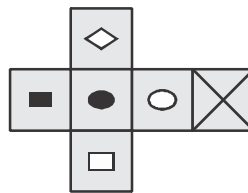


- (A) 133 (B) 171 (C) 152 (D) 114

8 **Which one is different from others?**



9 **Which cube can be made from this shape?**



- (A) (B) (C) (D)

10 **A is the son of C; C and Q are sisters; Z is the mother of Q and P is the son of Z. Which of the following statements is true?**

- (A) P and A are cousins
 (B) P is maternal uncle of A
 (C) Q is the maternal grandfather of A
 (D) C and P are sisters

- 11 **What is the shortcut key to insert today's date in MS-Word 2010?**
- (A) Shift + Ctrl + D (B) Shift + Alt + D
(C) Shift + Home + D (D) Shift + End + D
- 12 **Where does the operating system files are stored?**
- (A) Cache (B) Ram
(C) Hard disk (D) Pen drive
- 13 **What are drop shadow, inner glow and bevel in Photoshop?**
- (A) Filters (B) Blending options
(C) Image adjustments (D) Layer modes
- 14 **Which electronic commerce focuses on non-commercial customers or consumers?**
- (A) B2B e-commerce (B) B2C e-commerce
(C) B2E e-commerce (D) C2C e-commerce.
- 15 **What is the shortcut key to insert line break manually without breaking paragraph in MS-Word 2010?**
- (A) Home + Enter (B) Ctrl + Enter
(C) Shift + Enter (D) Alt + Enter

16 Which of the following words replaces the blank?

There are no black clothes in Rakesh's wardrobe as he has _____.

- (A) electrophobia (B) musophobia
(C) melanophobia (D) acousticophobia

17 What does 'INSOLENT' mean?

- (A) Selfish (B) Rude
(C) Playful (D) Stubborn

18 Which meaningful word can be formed by unscrambling the letters of 'NLOECES'?

- (A) Closeen (B) Losceen
(C) Enclose (D) Elsenoc

19 Identify the MISSPELT word.

- (A) Fluorescent (B) Seize
(C) Heirarchy (D) Mischievous

20 Identify the correct idiom that can replaces the blank.

The intense competition is making me _____.

- (A) face the music (B) a bag of nerves
(C) a standing joke (D) a dog in the manger

