

8. अनुक्रम 132, 129, 124, 117, 106, 93, X में X क्या है 8. What is X in the sequence 132, 129, 124, 117, 106, 93, X

(a) 74

(b) 75

(c) 76

(d) 77



(a) 74

(b) 75

~~(c) 76~~

(d) 77

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9. अनुक्रम 4, 196, 16, 144, 36, 100, 64, X में X क्या है ?

- (a) 48
(b) 64
(c) 125
(d) 256

Handwritten annotations for the Hindi question:

- Arrows pointing up from 196 to 14^2 , from 144 to 12^2 , from 100 to 10^2 , and from 64 to 8^2 .
- Arrows pointing down from 4 to 2^2 , from 16 to 4^2 , from 36 to 6^2 , and from 100 to 10^2 .
- The number 64 is circled in red.

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9. What is X in the sequence 4, 196, 16, 144, 36, 100, 64, X?

- (a) 48
~~(b) 64~~
(c) 125
(d) 256

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AB — 2



E

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T

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Y

~~25~~

$$\left\{ \begin{array}{l} 25 \div 5 = 5 = 25 \times 5 = 125 \textcircled{5} \\ 8 \div 4 = 2 = 8 \times 4 = 32 \textcircled{2} \\ 18 \div 6 = 3 = 18 \times 6 = 108 \textcircled{3} \\ 9 \div 3 = ? = 9 \times 3 = 27 \textcircled{7} \end{array} \right.$$

$$8 \div 7 = 6 \Rightarrow 8 \times 7 = 5 \text{ (6)}$$

$$15 \div 3 = 5 \Rightarrow 15 \times 3 = 4 \text{ (5)}$$

$$9 \div 3 = 7 \Rightarrow 9 \times 3 = 2 \text{ (7)}$$

$$27 \div 3 = ? \times 27 \times 3 = 8 \text{ (1)} =$$

$\sqrt{54 + 43 = 2}$	$(5-4) + (4-3) = 1+1 = 2$
$\rightarrow 60 + 51 = 10$	$(6-0) + (5-1) = 6+4 = 10$
$62 + 72 = ?$	$(6-2) + (7-2) = 4+5 = \textcircled{9}$

$$20 + 15 = 24 \quad (2+0) + (1+5) = 2+6 = 8 \times 3 = 24$$

$$64 + 13 = 42 \quad (6+4) + (1+3) = 10+4 = 14 \times 3 = 42$$

$$11 + 28 = ? \quad (1+1) + (2+8) = 2+10 = 12 \times 3 = \underline{\underline{36}}$$

$$33 + 45 = 30 \quad (3+3)+(4+5)=6+9=1+5=6 \times 5 = 30$$

$$90 + 26 = 40 \quad (9+0)+(2+6)=9+8=1+7=8 \times 5 = 40$$

$$13 + 27 = ? \quad (1+3)+(2+7)=4+9=1+3=4 \times 5 = \underline{\underline{20}}$$

$$52 \times 45 = 30 \quad | \quad (5 \times 2) + (4 \times 5) = 10 + 20 = 30$$

$$73 \times 21 = 23 \quad | \quad (7 \times 3) + (2 \times 1) = 21 + 2 = 23$$

$$84 \times 52 = 42 \quad | \quad (8 \times 4) + (5 \times 2) = 32 + 10 = 42$$

$$62 \times 43 = ? \quad | \quad (6 \times 2) + (4 \times 3) = 12 + 12 = \textcircled{24}$$

$$94 + 31 + 22 = 43$$

$$56 + 85 + 28 = 86$$

$$27 + 45 + 25 = ?$$

$$(9 \times 4) + (3 \times 1) + (2 \times 2) = 36 + 3 + 4 = 43$$

$$(5 \times 6) + (8 \times 5) + (2 \times 8) = 30 + 40 + 16 = 86$$

$$(2 \times 7) + (4 \times 5) + (2 \times 5) = 14 + 20 + 10 = 44$$

⑫ ① ⑬ ⑯

LAMP = 1211316

PINKI = 16914119

(1+0)
①+8 ⑤ ① ①+9 ①+5 ①+4

REASON = 951165

951165

⑦ ②+5 ① ①+4

GYAN = 7715

7715

①+2 ①+5 ②+2 ⑤

→ LOVE = ? = 3645

3645

$$13 + 1 + 14 + 7 + 15 = \textcircled{50}$$

MANGO = 50

$$4 + 5 + 12 + 8 + 9 = \textcircled{38}$$

DE LHI = 38

$$7 + 15 + 1 = \textcircled{23}$$

GOA = ?

$$1+16+16+12+5 = \textcircled{5+0} = \underline{\underline{5}}$$

APPLE = 5

$$4+5+12+0+9 = \textcircled{3+8} = \textcircled{1+1} = \underline{\underline{2}}$$

DELHI = 2

$$13+21+13+2+1+9 = \textcircled{5+9} = \textcircled{1+4} = \textcircled{5} = \underline{\underline{5}}$$

MUMBAI

$$2+1+20 = \textcircled{23}$$

$$B.A.T = 23$$

$$3+1+20 = \textcircled{24}$$

$$C.A.T = 24$$

$$4+15+12+12 = \textcircled{43}$$

$$DOLL =$$

$$(3 \times 1) + 20 = \underline{\underline{23}}$$

$$CAT = 23$$

$$(4 \times 15) + 7 = 67$$

$$DOG = 67$$

$$16 \times 5 + 14 = 16 \times 5 = 80 + 14 = \textcircled{94}$$

$$PEN = ?$$

KGS



IAS

THANKS FOR WATCHING

