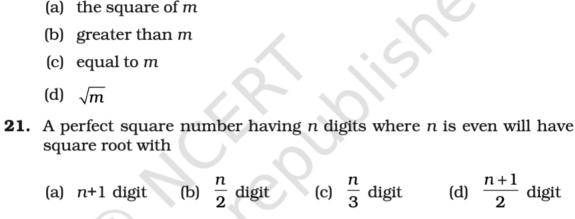
4.	Which of the following will have 4 at the units place?							
	(a)	14^{2}	(b)	62^{2}	(c)	272	(d)	35^{2}
5 .	How many natural numbers lie between 5 ² and 6 ² ?							
	(a)	9	(b)	10	(c)	11	(d)	12
6.	Which of the following cannot be a perfect square?							
	(a)	841	(b)	529	(c)	198		
	(d) All of the above							
7.	The	one's digit of	f the	cube of 23 is	3			
	(a)	6	(b)	7	(c)	3	(d)	9
8.	A square board has an area of 144 square units. How long is each side of the board?							
	(a)	11 units	(b)	12 units	(c)	13 units	(d)	14 units
9.	Which letter best represents the location of $\sqrt{25}$ on a number line?							
	(a)	A	(b)	В	(c)	C	(d)	D
			Α	В	C	D		
			←	B 0 1 2 3 4	5	6 7		
10.	If one member of a pythagorean triplet is 2m, then the other two members are							
	(a)	m, m^2+1						
	(b)	m^2+1 , m^2-1	(
	(0)							
	(C)	m^2 , m^2-1						
	. ,	m^2 , m^2-1 m^2 , $m+1$. ~ (0			
11.	(d)		essiv	ve odd numbe	ers 1	1, 3, 5, 7, 9, 1	1, 1	3 and 15 is
11.	(d) The	m², m+1 e sum of succe		ve odd numbe			1, 1; (d)	
	(d) The	m², m+1 e sum of succe	(b)	64	(c)	49		
	(d) The (a) The	m ² , m+1 e sum of succe 81	(b) n od	64	(c) mbe	49 ers is	(d)	
12.	(d) The (a) The (a)	m ² , m+1 e sum of succe 81 e sum of first	(b) <i>n</i> od (b)	64 d natural nu n²	(c) mbe (c)	49 ers is n²-1	(d)	36
12. 13.	(d) The (a) The (a) Wh (a)	m ² , m+1 e sum of succe 81 e sum of first 2n+1 ich of the folle	(b) n od (b) owin (b)	64 d natural num n² ng numbers is 216	(c) mbe (c) s a p (c)	49 ers is n²-1 erfect cube? 392	(d) (d) (d)	36 n²+1 8640
12. 13.	(d) The (a) The (a) Wh (a)	m ² , m+1 e sum of succe 81 e sum of first 2n+1 ich of the folle	(b) n od (b) owin (b) of a	64 d natural num n² g numbers is 216 right triangle	(c) mbe (c) s a p (c)	49 ers is n²-1 erfect cube? 392 ch its legs of l	(d) (d) (d)	36 n²+1 8640
12. 13. 14.	(d) The (a) The (a) Wh (a) The (a)	m^2 , $m+1$ e sum of succe 81 e sum of first 2n+1 ich of the folle 243 e hypotenuse 5x	(b) n od (b) owin (b) of a (b)	64 d natural num n^2 g numbers is 216 right triangle	(c) mbe (c) s a p (c) e wit (c)	49 ers is n²-1 erfect cube? 392 th its legs of 1 16x	(d) (d) (d) engt (d)	36 n^2+1 8640 36 36 36 36
12. 13. 14.	(d) The (a) The (a) Wh (a) The (a) The	m ² , m+1 e sum of succe 81 e sum of first 2n+1 ich of the folle 243 e hypotenuse	(b) n od (b) owin (b) of a (b) mbe	64 d natural num n^2 ig numbers is 216 right triangle $7x$ rs in the num	(c) mbe (c) s a p (c) e wit (c) nber	49 ers is n²-1 erfect cube? 392 ch its legs of l 16x pattern 1, 4,	(d) (d) (d) engt (d) 9, 1	36 n^2+1 8640 hs $3x \times 4x$ is $25x$



20. If m is the square of a natural number n, then n is

(a) None of these

(a)
$$n+1$$
 digit (b) $\frac{1}{2}$ digit (c) $\frac{1}{3}$ digit (d) $\frac{1}{2}$ digit

22. If m is the cube root of n, then n is

(a) m^3 (b) \sqrt{m} (c) $\frac{m}{3}$ (d) $\sqrt[3]{m}$

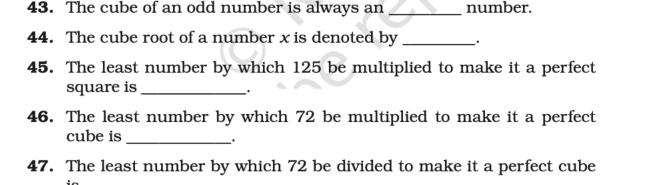
23. The value of $\sqrt{248 + \sqrt{52 + \sqrt{144}}}$ is

(a) $\sqrt{14}$ (b) $\sqrt{12}$ (c) $\sqrt{16}$ (d) $\sqrt{13}$

(a) 14 (b) 12 (c) 16 (d) 13

24. Given that
$$\sqrt{4096} = 64$$
, the value of $\sqrt{4096} + \sqrt{40.96}$ is

(a) 74 (b) 60.4 (c) 64.4 (d) 70.4



48. Cube of a number ending in 7 will end in the digit ...

41. $\sqrt{1.96} =$ ______.

42. $(1.2)^3 =$.

- **94.** Can a right triangle with sides 6cm, 10cm and 8cm be formed? Give reason.
- **95.** Write the Pythagorean triplet whose one of the numbers is 4.

- 106. What is the least number that should be added to 6200 to make it a perfect square?
- **107.** Find the least number of four digits that is a perfect square.
- **108.** Find the greatest number of three digits that is a perfect square.

Find the number.

139. Put three different numbers in the circles so that when you add the numbers at the end of each line you always get a perfect square.