

Tech Mahindra Reasoning Questions & Answers with Solutions – Paper 2



Verbal reasoning general

1. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(96, 80, 64)

1. (64, 80, 72)

2. (100, 88, 69)

3. (72, 56, 62)

4. (52, 64, 47)

Solution:

$$\frac{96}{4} + \frac{80}{2} = 64$$
$$\frac{100}{4} + \frac{88}{2} = 69$$

2. In the following question, select the related letter/letters from the given alternatives.

HIK : KLN :: PQS : ?

1. TUW

2. STV

3. STU

4. TUX

Solution: + 3 Series

3. In the month of June, the number of girls in a class was half of the number of boys. In July, seven more girls took admission, whereas

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seven boys left the school. Now, the number of boys and girls is equal in the class. How many students in total were there in the class in June?

1. 42

2. 25

3. 35

4. 20

Solution:

Girls : Boys
1 : 2

In July,

$$\frac{x + 7}{2x - 7} = \frac{1}{1}$$

$$x + 7 = 2x - 7$$

$$x = 14$$

No. of students in June = $3x = 42$

4. In the following question, select the missing number in the given series. 9, 28, 86, 261, 787, ?

1. 2366

2. 1795

3. 2175

4. 2285

Solution:

$$9 \times 3 + 1 = 28$$

$$28 \times 3 + 2 = 86$$

$$86 \times 3 + 3 = 261$$

$$261 \times 3 + 4 = 787$$

$$787 \times 3 + 5 = 2366$$

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5. Amit walks 20 metres towards north. Then turns right and walk another 16metres.

Then right and walks for 8 metres to reach college R. He again turns to his right and walks for 16 metres. What is the straight line distance (in metres) between the starting point and college R?

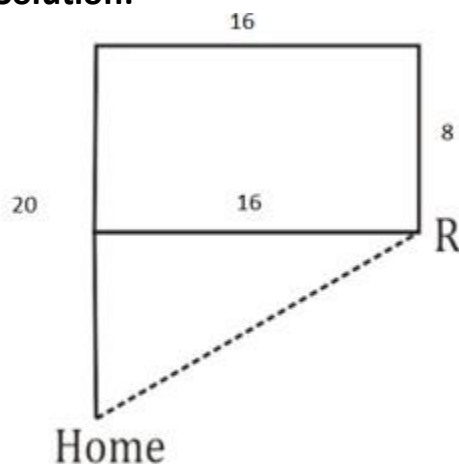
1. $12\sqrt{2}$

2. 20

3. 14

4. $14\sqrt{3}$

Solution:



$$\begin{aligned}\text{Shortest distance} &= \sqrt{(12 - 7)^2 + 16^2} \\ &= \sqrt{12^2 + 16^2} = 20\end{aligned}$$

6. In a code language, QUESTION is written as TRHPWFRK. How will SYMPATHY be written as in that language?

1. VVPMDQKV

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2. VVPNDQKV

3. VVPMDQCV

4. VUPMDQKV

Solution:

Q U E S T I O N
| +3 | -3 | +3 | -3 | +3 | -3 | +3 | -3

T R H P W F R K

S Y M P A T H Y
| +3 | -3 | +3 | -3 | +3 | -3 | +3 | -3
V V P M D Q K V

7. In a certain code language, '÷' represents '+', '-' represents '×', '+' represents '÷' and '×' represents '-'. Find out the answer to the following question.
 $24 \div 14 - 5 + 10 \times 14 = ?$

1. 39

2. 45

3. 27

4. 17

Solution:

$$\begin{aligned} & 24 \div 14 - 5 + 10 \times 14 \\ \Rightarrow & 24 + 14 \times 5 \div 10 - 14 \\ = & 24 + 7 - 14 \\ = & 17 \end{aligned}$$

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8. Select the number-pair in which the two number are related in the sameway as are the two numbers of the following number-pair
530: 23

1. 290: 17

2. 323: 19

3. 223: 13

4. 238: 14

Solution:

$$(23)^2+1=530$$

$$(17)^2+1=290$$

9. Which of the following terms follows the trend of the given list?XXXXXXXXY, XXXXXYX, XXXXYXX, XXXYXXX, XXYXXXX,_____.

1. XYXXXXX

2. YXXXXXX

3. XXXXXY

4. XXXXXYX

Solution: 'Y' is moving one position from right to left.

So, next term is XYXXXXX

10. Two vans X and Y start from the same point. X travels 5 km West, then turns to its left and travels 3 km. Y travels 13 km South, then turns West and travels 5 km,

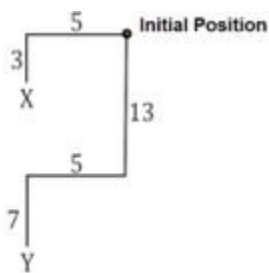
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then turns to its left and travels 7 km. Where is Y with respect to X now?

1. 11 km South
- 2. 17 km South**
3. 17 km North
4. 11 km North

Solution:



$$\text{Distance} = 10 + 7 = 17$$

11. In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusion, if any, follows from the given statements.

Statement I: No fruits are berries.

Statement II: Some cherries are fruits.

Conclusion I: All berries are cherries.

Conclusion II: Some cherries are berries.

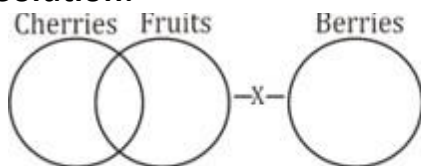
1. Only conclusion I follows
2. Only conclusion II follows
3. Both conclusions I and II follow

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4. Neither conclusion I nor conclusion II follows

Solution:



Neither conclusion I nor conclusion II follows.

58. Which number will replace the question mark(?) in the following series?

18, 34, 70, 138, 278, ?

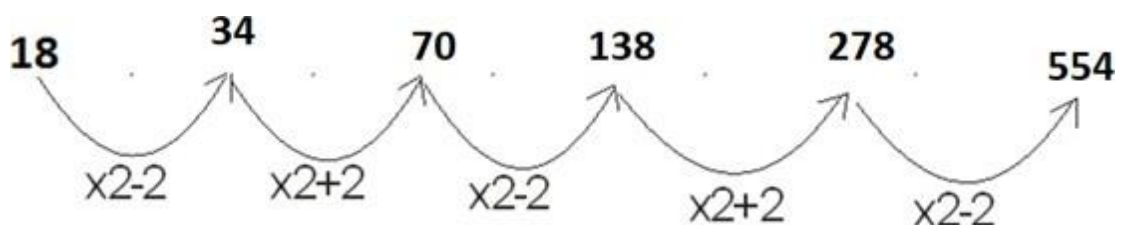
1. 554

2. 458

3. 492

4. 494

Solution:



12. Select the term that will come next in the following series. JVD, MTF, PRH, ? VNL

1. RPJ

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2. SPJ

3. SQJ

4. RQI

Solution:+3, -2, +2 series.

13. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

1. (63, 76, 89)

2. (97, 110, 123)

3. (92, 105, 116)

4. (74, 87, 100)

Solution: If follows (+13, +13) pattern except option (c).

14. Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair.
Pulmonology : Lungs

1. Cardiology: Liver

2. Ophthalmology: Eyes

3. Pathology: Tissues

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4. Zoology: Plants

Solution: study of Lungs is called Pulmonology
study of eyes is called ophthalmology.

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15. In a row of boys, Rahul is 19th from top and Ajay is 21st from bottom. They interchange their position, Ajay now becomes 28th from bottom. How many boys are there in the row?

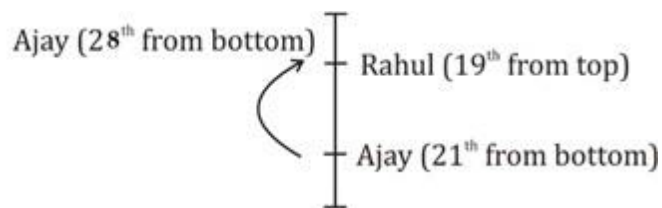
1. 47

2. 46

3. 45

4. 48

Solution:



$$\begin{aligned}\therefore \text{Total boys} &= 28 + 19 - 1 \\ &= 46\end{aligned}$$

16. In a certain code language, "HARMS" is written as "81181319" and "FLUTE" is written as "61221205". How is "WOUND" written in that code language?

1. 21144152

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2. 21441514

3. 231521144

4. 171921415