

Numerical Ability Questions & Answers

Question 1:

Yesterday Shweta completed 300 units of work at the rate of 15 units per minute. Today she completed the same units of work but her speed was 40% faster than yesterday. What is the approximate difference in the time she took to complete the work yesterday and the time she took today ?

- b) 26 min
- c) 46 min
- d) 36 min
- e) 6 min

Question 2:

Find out the wrong number in the given series

9050, 5675, 3478, 2147, 1418, 1077, 950

- a) 3478
- b) 1418
- c) 5673
- d) 2147
- e) 1077

Question 3:

A boat's speed with the current is 15 kmph and the boat's speed against the current is 5 kmph. What is the speed of the current?

- a) 15 kmph
- b) 10 kmph
- c) 5 kmph
- d) 20 kmph
- e) None of the above

Question 4:

A person bought an article on 40% discount and sold it at 50% more than the marked price. What profit did he get?

- a) 250 %

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- b) 150 %
- c) 350 %
- d) 200 %
- e)None of these

Question 5:

75% of a number is equal to four-fifth of another number.What is the ratio between the first number and the second number respectively ?

- a) 16:15
- b) 15:14
- c) 5:6
- d) 15:16
- e)None of these

Question 6:

Ratio of earnings of A and B is 8 : 9 respectively. If the earnings of A increased by 50% and the earnings of B decrease by 25%, the new ratio of their earnings becomes 16:9 respectively. What are 'A' earnings ?

- a) Rs. 37,000
- b) Rs. 28,500
- c) Rs. 22,000
- d) Cannot be determined
- e)None of these

Question 7:

Find out the wrong number in the given number series

7, 12, 40, 222, 1742, 17390, 208608

- a) 7
- b) 12
- c) 40
- d) 1742
- e)208608

Question 8:

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A bag of fruits was distributed among 4 students P, Q, R and S. P took $\frac{3}{8}$ th of the fruits. Q took $\frac{1}{5}$ th of the remaining fruits and the remaining fruits were equally distributed among R and S. What fraction of fruits did R get?

- a) $\frac{1}{4}$
- b) $\frac{3}{8}$
- c) $\frac{1}{8}$
- d) $\frac{5}{16}$
- e) Other than those as options

Solutions for numerical ability questions: (1 to 8)

1) Answer (E)

Time taken by Shweta to complete 300 units of work at a speed of 15units/min = $300/15 = 20$

New speed = $1.4 \times 15 = 21$ units/min

Time taken by Shweta to complete 300 units of work at a speed of 21units/min = $300/21 \sim 14$

Time difference = 6 minutes

2) Answer (E)

$9070 - 15^3 = 5675$, $5675 - 13^3 = 3478$, $3478 - 11^3 = 2147$, $2147 - 9^3 = 1418$, $1418 - 7^3 = 1075 \neq 1077$, $1075 - 5^3 = 950$

3) Answer (C)

With the current => downstream

Against the current => upstream

Let the speed of the boat be 's' and the speed of the river be 'r'.

So, $s - r = 5$ and $s + r = 15$

=> $2s = 20$ => $s = 10$ and $r = 5$ kmph

Speed of the current = 5 kmph

4) Answer (B)

Let the marked price be Rs. 100.

Then cost price = $100 - 40 =$ Rs. 60

Selling price = $100 + 50 =$ Rs. 150

Profit = $150 - 60 = 90$

Profit% = $90/60 \times 100 = 150\%$

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5) Answer (A)

Let the two numbers be p,q

75% of p means $75/100 * p$ or

$3/4$ of p, $4/5$ of other number means $4/5q$. Both are equal.

Hence, $3/4p = 4/5q$ hence, $p/q = 16/15$.

Hence the ratio is 16:15, hence, A

6) Answer (D)

Let the earnings of A and B be 8k and 9k respectively.

New earnings of A = $150/100 * 8k = 12k$

New earnings of B = $3/4 * 9k = 6.75k$

So, $12k : 6.75k = 16 : 9$

But, from this equation, we cannot determine the value of k.

So, option d) is the correct answer.

7) Answer (D)

$$(7-1) \times 2 = 12$$

$$(12 - 2) \times 4 = 40$$

$$(40 - 3) \times 6 = 222$$

$$(222 - 4) \times 8 = 1744 \neq 1742$$

$$(1744 - 5) \times 10 = 17390$$

$$(17390 - 6) \times 12 = 208608$$

8) Answer (A)

Let $P+Q+R+S = x$ where x is bag of fruits.

$$P = (3/8)x$$

$$Q = (1/5) * 5x/8 = x/8$$

Let R and S be fraction by y.

$$\text{Fruits with R and S} = x - 3x/8 - x/8 = x/2$$

$$\text{SO fruits with R} = x/4$$