

Markhor Junior Contest 2019

Pioneer Level (Class VII & VIII)
Mathematics Time Allowed 60 Minutes

There are 19 problems, graded as follows:

Questions 1-5 are 1 point each,

Questions 6-10 are 2 points each,

Questions 11-15 are 3 points each,

Questions 16-19 are 5 points each.

1. $\frac{3}{4}$ as rate percent is
 - a) 7.5%
 - b) 75%
 - c) 0.75%
 - d) none of these
2. A company sells a product with a cost price to selling price ratio of a:b. If the selling price is 200% of the cost price, what percentage profit does the company make?
 - a) 75%
 - b) 125%
 - c) 100%
 - d) 200%
3. How long will it take Rs.100 to triple itself at 5% simple interest?
 - a) 10 Years
 - b) 5 Years
 - c) 20 Years
 - d) 40 years

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4. Student secures 90%, 60% and 54% marks in test papers with 100, 150 and 200 respectively as maximum marks. The percentage of his aggregate is.
- a) 64
 - b) 68
 - c) 70
 - d) None of these
5. An athlete runs 200 meters race in 24 seconds. What is his speed in km/h
- a) 30km/h
 - b) 25km/h
 - c) 20km/h
 - d) 10km/h
6. The product of two mixed numbers is always.
- a) less than 1
 - b) equal to 1
 - c) greater than 1
 - d) None of these
7. If an airplane takes 5 hours to travel 1200 km at 240 km/h, what speed would it need to reach the same destination in just 1 hour and 40 minutes?
- a) 360 km/h
 - b) 600 km/h
 - c) 720 km/h
 - d) 900 km/h

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8. Raza packed 6 kg of shelled peas into- freezer bags. If each bag weights $\frac{3}{4}$ kg, how many freezer bags did she pack ?

- a) 4
- b) 6
- c) 8
- d) 10

9. $1.1 \times 0.1 \times 0.01 = ?$

- a) 0.11
- b) 0.011
- c) 0.0011
- d) none of these

10. A rational number is its positive numerical value is called.

- a) Positive value
- b) Negative value
- c) Absolute value
- d) None of these

11. if $3X = 2Y$ and $5Y = 4Z$, then $Z:X = ?$

- a) 6:10
- b) 10:6
- c) 5:6
- d) 6:5

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12. If 25% of X = 30% of Y, then X:Y = ?

- a) 5:6
- b) 6:5
- c) 4:5
- d) 5:4

13. If an inlet fills up a cistern in n hours, its rate of filling is

- a) n hours
- b) $\frac{1}{n}$ hours
- c) 60n hours
- d) 3600n hours

14. The smallest number which must be multiplied to 175 to make it perfect square is

- a) 7
- b) 9
- c) 11
- d) 5

15. A tyre has two punctures. The first puncture alone would have made the tyre flat in 9 minutes and the second alone would have done it in 6 minutes. If air leaks out at a constant rate, how long does it take both punctures together to make it flat?

- a) 2.4 minutes
- b) 3.6 minutes
- c) 5.4 minutes
- d) 6.9 minutes

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- 16. What is true about the divisibility of the difference between a four-digit palindrome number $abba$ and its reverse?**
- a) Divisible by 2 only
 - b) Divisible by 3 only
 - c) Divisible by any number
 - d) Not divisible by any number
- 17. An exterior angle of a triangle is divided into two parts in the ratio 5:6. If one part measures 75° , find the other part.**
- a) 90°
 - b) 105°
 - c) 120°
 - d) 150°
- 18. In a cyclic quadrilateral (a quadrilateral whose vertices lie on a circle), the sum of the measures of opposite angles is:**
- a) 90°
 - b) 180°
 - c) 270°
 - d) 360°
- 19. In the given figure, the arms of two angles are parallel, if $\angle ABC = 70$ then find x**
- a) 70
 - b) 110
 - c) 30
 - d) none of these

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