MERION SCHOOL
Merion School
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Name _____2022/23 Academic Year Grade 8

I. Choose the correct answer from the given alternatives.

_____1. The simplified form of $\frac{\frac{1}{8} \div (\frac{1}{4} - \frac{1}{3})}{\frac{4}{3} + \frac{1}{2}(\frac{1}{2} \div \frac{3}{2})}$

A. -1 B. $\frac{1}{3}$ C. $\frac{2}{3}$ D. $\frac{-3}{2}$

_____2. The cost of $\frac{7}{2}$meters of cloth is birr $\frac{231}{4}$. What is the cost of one meter of cloth?

A. $\frac{32}{2}$ B. $\frac{33}{2}$ C. $\frac{21}{2}$ D. $\frac{22}{3}$

_____3. Which of the following true about the set of rational numbers?

A. The union of the set of terminating and repeating decimal number

B. $\{\frac{a}{b}$: a. b $\in$N$\}$

C. $\{\frac{a}{b}$: a, b $\in$ W$\}$

D. $\{\frac{a}{b}$: a, b $\in$ z and b$\neq$ o$\}$

_____4. If A is a rational number between -1 and 0, which of the following is not more than A?

A. $\frac{-1}{A}$ B. $\frac{1}{A}$ C. 1-A D. A^2

_____5. Melat earns birr 16,000 per month. She spends $\frac{1}{4}$ of her income on food, $\frac{3}{10}$ of the remainder on house rent and $\frac{5}{21}$ of the remainder of the education of children. How much money is still left with her?

A. Br. 6400 B. Br. 2400 C. Br. 4500 D. Br. 6450

_____6. A car is moving at an average speed of $\frac{202}{5}\ \frac{km}{hr}$. How much distance will it cover in $\frac{15}{2}$ hr?

A. 300km B. 240 km C. 290km D. 303 km

_____7. Which of the following statement is true?

A. $7\frac{2}{3} > \frac{23}{3}$ B. $\frac{-3}{5} < \frac{3}{5}$ C. $9\frac{2}{3} = \frac{29}{3}$ D. 6.53< 6.053

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_____8. What is value of x if $\sqrt[3]{2x-1} = 2$

A. $\frac{7}{2}$ B. $\frac{9}{2}$ C. $\frac{-7}{2}$ D. 3

_____9. The most simplified form of $\frac{\sqrt{64}}{(0.25)(0.16)}$ is

A. 20 B. 5 C. 10 D. 40

_____10. $3\sqrt{50} + 4\sqrt{72} + 5\sqrt{8}$ is equal to;

A. $20\sqrt{2}$ B. $45\sqrt{2}$ C. $49\sqrt{2}$ D. $29\sqrt{2}$

_____11. If the volume of the cube is equal to 1331 cm3 then what is the length of each edge of the cube?

A. 11 cm B. 9cm C. 71 cm D. 81 cm

_____12. Two third of a group of people are men, if the number of women is 200 more than the men, find the total number of people.

A. 450 B. 600 C. 650 D.533

_____13. The simplified form of $\sqrt[3]{\frac{49.13}{33.75}} \div \sqrt[3]{\frac{10.648}{1.728}}$

A. $\frac{35}{39}$ B. $\frac{34}{59}$ C. $\frac{34}{55}$ D. $\frac{24}{55}$

_____14. Which one of the following statement is not true?

A. The square root of 0.64 is 0.8

B. There is no square number between 70 and 80.

C. The product of two perfect square is perfect square.

D. 629 is perfect square

_____15. Ten years from now kidus age will be six times his present age. What is his present age?

A. 2 years B. 12 year C. 5 years D. 10 years

_____16. If $\frac{x-2}{10}$+ x = $\frac{x}{3}$, then what is the value of 23x+4?

A. 10 B.12 C. $\frac{15}{23}$ D. $\frac{6}{23}$

_____17. The solution y ≥ 2 belongs to which inequality?

A . y+15≤ 2-8y B. y-16≤ 2-8y C. y-16≤ 2+8y D. y+16≤2+8y

_____18. A maximum of 500 tourists went on road trip. 8 buses were filled and the remaining 9 tourists went in a car, express the following situation as an inequality. (Represent the number of buses by x).

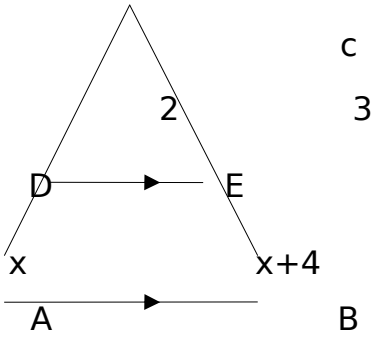
A. 8x-9 ≤ 500 B. 8x+9 ≤ 500 C. 72x≤500 D. 9xx+8≤500

_____19. Two triangles are similar. A side of on is 4 units long. The corresponding side of the other is 6 units long. What is the ratio of their areas?

A. $\frac{4}{9}$ B. $\frac{4}{6}$ **if** C. $\frac{2}{3}$ D. $\frac{5}{3}$

_____20. What is the value of x $\overline{DE}$ $\overline{AB}$?

A. $\frac{3}{2}$ B. 9 C. 8 D. 5



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Parent's Name_____Signature _____Date_____

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