



**VIDYA BHARATI SCHOOL**  
**OLYMPIAD - AUGUST 2017**  
**SUBJECT: MATHEMATICS**

**GRADE: VIII**

- Ravi had 25 marbles. He gave 10 marbles to his brother. What percent of the marbles did he give to his brother?  
a) 10%            b) 25%            c) 40%            d) 20%
- Which is a Pythagorean triplet  
a) { 1,2,3 }    b) { 2,3,4 }    c) { 3,4,5 }            d) { 9,16,25 }
- Sudha spent Rs.12 on the ingredients of a recipe. This was 40% of her money before she bought the ingredients. If she had Rs.x before buying the ingredients Which of the statements is true  
a) 40% of 12=x    b) x% of 40=12    c) 40% of x=12    d) none
- Multiplicative inverse of  $\frac{4}{16}$   
a)  $-\frac{4}{16}$             b)  $\frac{16}{4}$             c)  $-\frac{16}{4}$             d)  $\frac{8}{32}$
- Which is not a rational number  
a)  $\frac{4}{19}$             b)  $-\frac{3}{76}$             c)  $\frac{183}{0}$             d) 16
- Find 25% of 625  
a) 156.25            b) 225            c) 25            d) 12.25
- Find the interest for Rs.20000/ for 2 years at 10% per annum  
a) Rs.2000            b) Rs.4000            c) Rs.40000            d) Rs.1000
- Decimal representation of  $\frac{4}{5}$ -----  
a).08            b).8            c).2            d).002
- Area of triangle whose base=10cm ,height=4cm is  
a) 20sq.cm    b) 40 sq.cm    c) 14 sq.cm    d) 28 sq.cm
- If radius of a circle is doubled ,what would be the ratio of new diameter to new circumference  
a)  $\frac{1}{\pi}$             b)  $2\pi$             c)  $\pi$             d)  $\frac{\pi}{2}$
- Find the sum of the DIGITS of the first 25 odd natural numbers  
a).100            b).160            c).210            d) none
- Which is the smallest three-digit perfect square?

- a]100 b] 101 c] 121 d] 144
13. Find the values if  $x=3$  ,  $3x-5-x+9$   
a] 10 b] 16 c] 8 d] 4
14. Find the height of triangle if area 30 sq.cm.and base is 3cm.  
a]20 cm. b] 10 cm c] 90cm d] 45 cm
- 15.. Convert each part of the ratio to percentage 2:3:5  
a] 2%,3%,5% b]20%,30%,50% c]40%,60%.100% d] none of these
- 16 Express in standard form 31865000  
a]  $31865 \times 10^3$  b]  $3.1865 \times 10^7$  C]. $31865 \times 10^8$  d]none of these
17. 1,8,27,64,125,-----fill the pattern  
a] 250 b]216 c]150 d] 100
- 18 At a fruit stand, an apple and a pear cost 25 cents, a pear and a banana cost 19 cents, and an apple and a banana cost 16 cents. Alex buys one apple, one pear, and one banana. How much does Alex spend  
a]Rs. 25 b]Rs.200 c]Rs.57 d]none
19. A pair of integers whose sum is other than -10 is  
a] -8,-2 b] 2,-12 c]-6,- d]7,3
- 20 The difference between simple interest and compound interest on a sum of Rs.1000 at the rate of 10%for 2 years  
a ] Rs.1 b ]Rs.10 c] Rs.100 d ]none of these

\*For more practice material please click:[www.brilliant.org](http://www.brilliant.org);[www.sofolympiadtrainer.com](http://www.sofolympiadtrainer.com); [www.olympiadhelper.com](http://www.olympiadhelper.com)