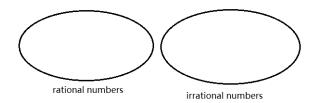
Grade 7 Bilingual Math worksheet: Real number 2

Name:_____

Score:_____(**Due: 26 Aug.**)

1. Put all the following numbers into the right set.

 $\sqrt[3]{2}, \frac{1}{4}, \sqrt{7}, -\frac{5}{2}, \sqrt{2}, \sqrt{\frac{20}{3}}, -\sqrt{5}, -\sqrt[3]{8}, \sqrt{\frac{4}{9}}, 0, 0.373773773\cdots, 1.7171717171\cdots$



2. Fill the blanks

- (1) the square of a number is 256, then the number is _____
- (2) the volume of a cube is 125 cmm^3 , then the length of each edge is _____
- (3) the principal square root of 25 is _____
- (4) the square root of 16 is _____ and ____, they are _____ number for each other.
- 3. Calculate for each of the following
 - (1) $\sqrt[3]{\frac{125}{8}}$
 - (2) $\sqrt{(-5)^2}$
 - (3) $\sqrt[3]{(-5)^3}$

(4) $(\sqrt[3]{-5})^3$ (5) $\sqrt[3]{-1}$

4. Find the opposite number, reciprocal number and absolute value for each of the following

5,
$$-\pi$$
, $\frac{2}{3}$, -2.5 , $\sqrt[3]{-8}$

- 6. Compare the following pairs, put \langle , \rangle or = in the blank
 - (1) $\sqrt{50}$ 7 (2) $\frac{\sqrt{5}-1}{2}$ 1
 - (3) $\sqrt[3]{30}$ _3

7. The radius of a circle is 1cm, if there is a square whose area equals to the area of the circle. Get the length of the edge for that square.

8. For a number a, its square equals to itself, get all the possible value for a.

9. Find all the integers between $-\sqrt{2}$ and $\sqrt{11}$.

10. Let's consider summation of two irrational numbers, such as $\sqrt{2} + \sqrt{3}$, $\pi - \frac{\pi}{2}$, $\sqrt{8} - \sqrt{2}$, all of results are irrational numbers. Is this true for all the summation of two irrational numbers? If not, can you give me an example?