

HW: 1-2 MathXL for School Additional Practice (on Google Classroom)

Warm up:

Write the following numbers as fractions.

$$1) 2.354 = 2 \frac{354}{1000} = 2 \frac{177}{500}$$

$$2) 0.52\overline{52} = \frac{52}{99}$$

$$3) 7 = \frac{7}{1}$$

$$\sqrt{49} = 7$$

square root - a number that produces a specified quantity when multiplied by itself

$$\sqrt{49} = 7$$

perfect square - a # w/ a whole # square root

1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144

non-terminating decimal - a decimal that
doesn't end

$$0.33\bar{3}$$

$$0.159261583021\dots$$

non-repeating decimal - a decimal that
doesn't repeat

$$0.28135816293\dots$$

rational number - a # that can be written in the form $\frac{a}{b}$ where a and b are integers
 "can be written as a fraction"

6 2.71 3.5252 $\sqrt{49}$
 -3 -0.8 $\frac{3}{4}$ $-2\frac{1}{5}$ $\sqrt{4}$

irrational number - not rational
 cannot write as a fraction

π 0.241839296105....

$\sqrt{2}$ $\sqrt{3}$ $\sqrt{5}$ $\sqrt{6}$ $\sqrt{7}$ $\sqrt{8}$ $\sqrt{10}$ $\sqrt{11}$ $\sqrt{12}$ $\sqrt{13}$

The set of rational numbers and the set of irrational numbers together make up the set of Real Numbers

HW Solutions

Identify as rational or irrational

$$2.774 = 2\frac{774}{1000}$$

rational

$$\sqrt{36} = 6 = \frac{6}{1}$$

rational

$$3.45\overline{45} = 3\frac{45}{99}$$

rational

$$\frac{7}{9}$$

rational

$$\sqrt{20}$$

irrational

π

irrational

19.294153

rational

7

- 3

$$-\frac{4}{5}$$

9.2 $\bar{2}$

7.3

0.3733733373337...



