	Any alumber that can be contract as a fraction, integer on us a repeating or terminating decimal.
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You can write <u>protection</u>, <u>which there</u>, and <u>protection</u> as a fraction. So they are all rational numbers. The square root of a <u>protection contract contract</u> is also a rational number. $3 = \frac{3}{1}$ $-5 = -\frac{5}{1}$ $0 = \frac{5}{1}$ $\sqrt{1}$ $\sqrt{1}$ $\sqrt{1}$ $\sqrt{2}$ $\sqrt{2}$ $\sqrt{3}$ $\sqrt{4}$ $\sqrt{3}$ $\sqrt{4}$ $\sqrt{3}$ $\sqrt{4}$ $\sqrt{3}$ $\sqrt{4}$ $\sqrt{3}$ $\sqrt{4}$ $\sqrt{4}$ $\sqrt{3}$ $\sqrt{4}$ $\sqrt{4}$ $\sqrt{5}$ $\sqrt{16}$ $\sqrt{4}$ $\sqrt{16}$ $\sqrt{16}$

You can write every <u>terminating</u> decimal as a fraction.

Use what you know about place value to find the fraction that is equivalent to any terminating decimal.

Decimal	Words	Fraction
0.4	four tenths	4 10 1
0.75	Seventy five hundred the	15 3 100 - A
0.386	Where hundred eighty lix three multing	Han Mid
√0.16 - Q/		4 - 2

You can write every <u>repeating</u> decimal as a rational number.

Example: 0.3

$$\frac{3}{9} - \frac{1}{3} = \frac{5}{3}$$

Lesson 7 Rational Numbers Name _____

Practice:



4. What is 0.35 written as a fraction?

5. Which point on the number line best represents $-2\frac{2}{3}$? $\frac{J}{k}$

6. A gymnast is $4\frac{5}{12}$ feet tall. What is the decimal expansion equivalent to $4\frac{5}{12}$?

7. The metal composition of a penny is 97.5% zinc and only 2.5% copper. How would 2.5% be written as a decimal? $\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^$

8. Write 65% as a decimal. Plot and label a point for it on the number line.

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9. Are all repeating decimals rational numbers? Explain and give two examples to support your answer.