

Warm-up

1) Sequence: 3, 6, 12, 24, 48, 96

Find the missing numbers.

2) Sequence: 2, 5, 8, 11, 14, 17, 20

Find the missing numbers.

Solutions:

1) The pattern is multiplying by 2 each time.

Missing numbers: 24 and 96.

2) The pattern is adding 3 each time.

Missing numbers: 8 and 17.

Oct 1

Does adding zeros to a decimal change the number????

14.7 00000000...

NO

Converting fractions to decimals without a calculator

- To convert a fraction to decimal, we divide the numerator by the denominator.

Example:

Convert $\frac{2}{5}$ to a decimal

- 1) Divide the numerator by the denominator:

$$2 \div 5$$

- 2) Long division!!!!

$$\begin{array}{r} 0.4 \\ 5 \overline{) 2.0} \\ \underline{- 20} \\ 0 \end{array}$$

$$\frac{2}{5} = 0.4$$

Convert each fraction to a decimal without calculator

2. $\frac{1}{8} = 0.2$

3. $\frac{1}{4} = 0.125$

4. $\frac{2}{20} = 0.25$

5. $\frac{5}{8} = 0.1$

1) $\frac{1}{5} \quad 1 \div 5 \quad 5 \overline{) 1.0}$
 $\frac{0.2}{1.0}$
 $\underline{- 1.0}$
 0

2) $\frac{1}{8} \quad 1 \div 8$
 $8 \overline{) 1.000}$
 $\frac{0.125}{1.000}$
 $\underline{- 800}$
 200
 $\underline{- 1600}$
 400
 $\underline{- 4000}$
 0

3) $\frac{1}{4}$
 $4 \overline{) 1.00}$
 $\frac{0.25}{1.00}$
 $\underline{- 80}$
 20
 $\underline{- 200}$
 0

4) $\frac{2}{20}$
 $20 \overline{) 2.0}$
 $\frac{0.1}{2.0}$
 $\underline{- 200}$
 0

5) $\frac{5}{8}$
 $8 \overline{) 5.000}$
 $\frac{0.625}{5.000}$
 $\underline{- 4800}$
 200
 $\underline{- 1600}$
 400
 $\underline{- 4000}$
 0

