

AUG 28, 2018

**Starter - No Calculator!**

1.  $3.2(4.1) =$   
 $13.12$   
 $\begin{array}{r} 32 \\ \times 41 \\ \hline 32 \\ 1280 \\ \hline 1312 \end{array}$

2.  $\frac{7}{8} \cdot \frac{4}{3} =$   
 $\frac{7}{6} = \frac{28}{24}$

3.  $2 + 5 \cdot 7 - 4 =$   
 $2 + 35 - 4 = 37 - 4 = 33$

**Exploring Real Numbers**

⊙ A rational number is any number that you can write as a fraction, and repeats.

Rational Numbers

↓

Integers  
{..., -2, -1, 0, 1, 2, ...}

↓

Whole Numbers  
{0, 1, 2, 3, ...}

↓

Natural Numbers  
{1, 2, 3, ...}

**Exploring Real Numbers**

An Irrational number is any number that is a non-repeating, nonterminating decimal.

$\sqrt{7}$ ,  $\pi$ , 2.1563789...

**R REAL NUMBERS**

**Q RATIONAL**

**Z INTEGERS**

Whole Numbers

Natural Numbers

**I IRRATIONAL**

decimals -  
don't repeat  
& don't end.

Identify each of the following Real numbers ( $\mathcal{R}$ ) as Rational (Q) or Irrational.

If the number is rational, decide if it is Natural (N), Whole (W), Integer (Z) or just rational.

- 1)  $\sqrt{7}$  R I
- 2) 1.325 R Q
- 3)  $\overline{1.33}$  R Q
- 4)  $-8.5$  R Q
- 5) 136 R Q N W Z
- 6)  $-10,124$  R Q Z

