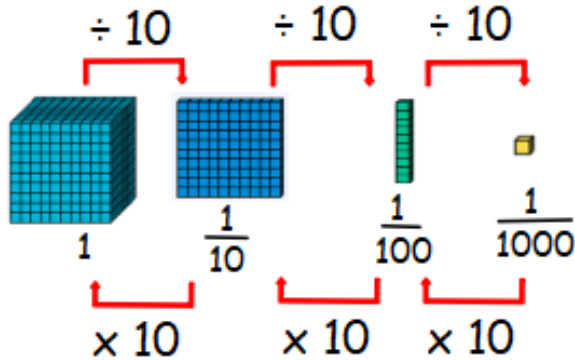
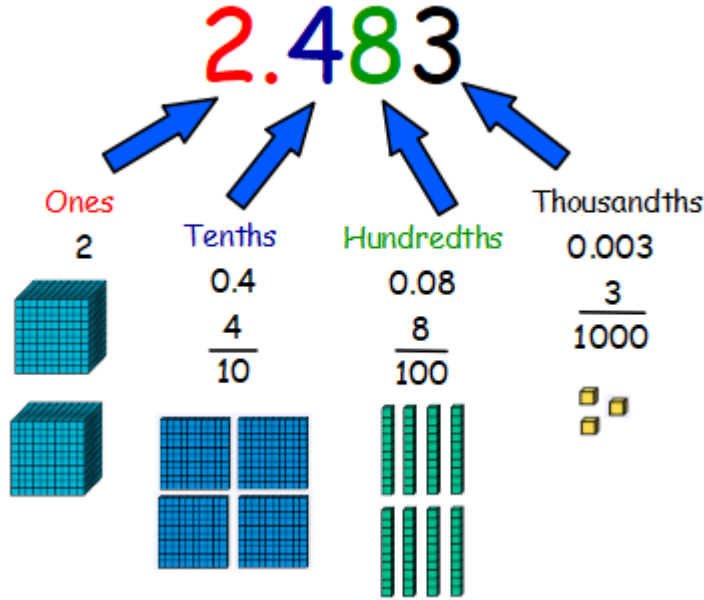


Key Vocabulary
half
quarter
third
fifth
three quarters
equal parts
tenths
hundredths
thousandths
decimal
equivalence
convert
numerator
denominator
decimal point
rounding
per cent %
complements

Tenths, Hundredths and Thousandths



Multiplying and Dividing by 10, 100 and 1000

$$56 \div 1000 = 0.056$$

Tens	Ones	Tenths	Hundredths	Thousandths
5	6			
	0	0	5	6

$$0.56 \times 100 = 56$$

Tens	Ones	Tenths	Hundredths	Thousandths
5	6			
	0	5	6	

$$5.6 \div 10 = 0.56$$

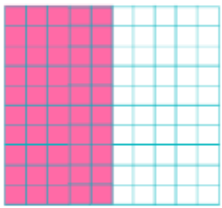
Tens	Ones	Tenths	Hundredths	Thousandths
	5	6		
		5	6	

When multiplying or dividing by multiples of ten, the amount of zeros tells you how many places you need to move left (x) or right (÷).

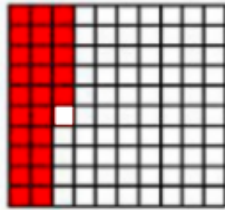


Year 5 Decimals

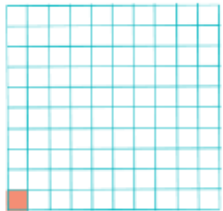
Percentage and Decimal Equivalents



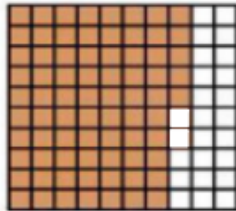
$$50\% = \frac{5}{10} = \frac{50}{100} = 0.5$$



$$25\% = \frac{25}{100} = \frac{1}{4} = 0.25$$



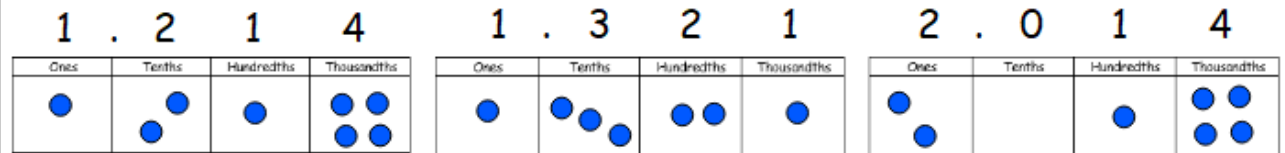
$$1\% = \frac{1}{100} = 0.01$$



$$75\% = \frac{75}{100} = \frac{3}{4} = 0.75$$

Comparing and Ordering Decimal Numbers

$$0.452 < 0.542$$



The decimal numbers above are in ascending order.

Adding and Subtracting Decimal Numbers

Same amount of decimal places

$$\begin{array}{r} 5.43 \\ + 1.72 \\ \hline 7.15 \end{array}$$

$$\begin{array}{r} 2.1639 \\ - 1.724 \\ \hline 0.915 \end{array}$$

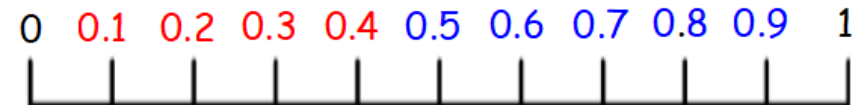
Different amount of decimal places

$$\begin{array}{r} 2.800 \\ + 0.724 \\ \hline 3.524 \end{array}$$

$$\begin{array}{r} 2.164 \\ - 1.70 \\ \hline 0.94 \end{array}$$

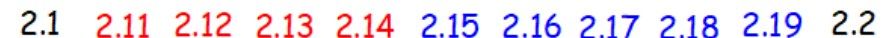
When adding or subtracting numbers with different amounts of decimal places, you can add place holding zeros to ensure you carry out the correct calculation.

Rounding Decimals



We round down to the nearest whole number when the tenths digit is four or below.

We round up to the nearest whole number when the tenths digit is 5 or above.



We round down to the nearest tenth when the hundredths digit is four or below.

We round up to the nearest tenth when the hundredths digit is 5 or above.