Fractions, Decimals & Percentages

Fraction	Decimal	Percent	Picture
$\frac{1}{10}$	0.1	10%	
$\frac{1}{5}$	0.2	20%	
$\frac{1}{4}$	0.25	25%	
$\frac{1}{3}$	0.3̄	33.3̄%	
$\frac{1}{2}$	0.5	50%	
$\frac{2}{3}$	0.6̄	66.6̄%	
$\frac{3}{4}$	0.75	75%	
1	1.00	100%	

Name: _____

Teacher: _____

Mathematics Book Year 6

Adding Fractions +

⅔ + ¼ = ¹¹⁄₁₂
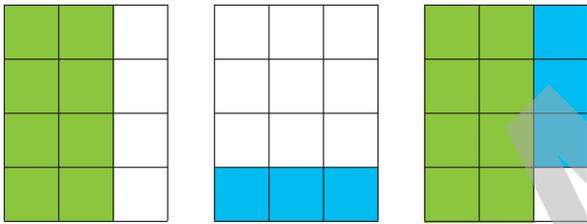
What is ⅕ + ⅔ =

Subtracting Fractions −

⅔ − ¼ = ⁵⁄₁₂
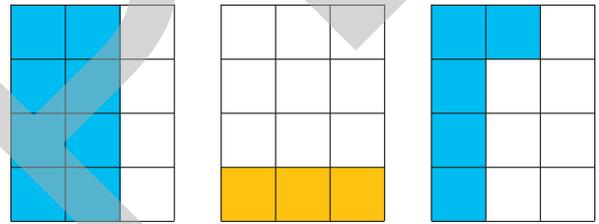
Can you show the difference ⅔ − ⅕?

Multiplying Fractions ✕

¼ ✕ ½ = ⅛
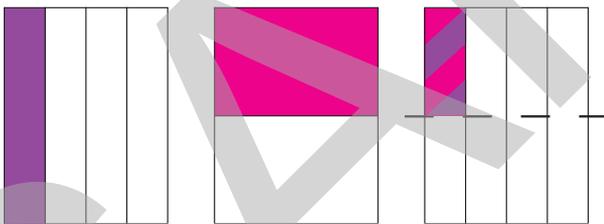
Can you show the product of ⅕ ✕ ⅓?

Dividing Fractions ÷

⅘ ÷ 4 = ⅕

Can you show ⅔ ÷ 2?

1				
½		½		
⅓	⅓		⅓	
¼	¼	¼		¼
⅕	⅕	⅕	⅕	⅕
⅙	⅙	⅙	⅙	⅙	⅙
¹⁄₁₀	¹⁄₁₀	¹⁄₁₀	¹⁄₁₀	¹⁄₁₀	¹⁄₁₀	¹⁄₁₀	¹⁄₁₀	¹⁄₁₀	¹⁄₁₀
¹⁄₁₂	¹⁄₁₂	¹⁄₁₂	¹⁄₁₂	¹⁄₁₂	¹⁄₁₂	¹⁄₁₂	¹⁄₁₂	¹⁄₁₂	¹⁄₁₂	¹⁄₁₂	¹⁄₁₂

-20 -19 -18 -17 -16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1
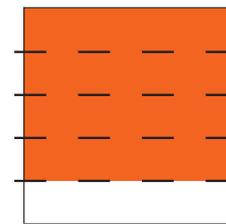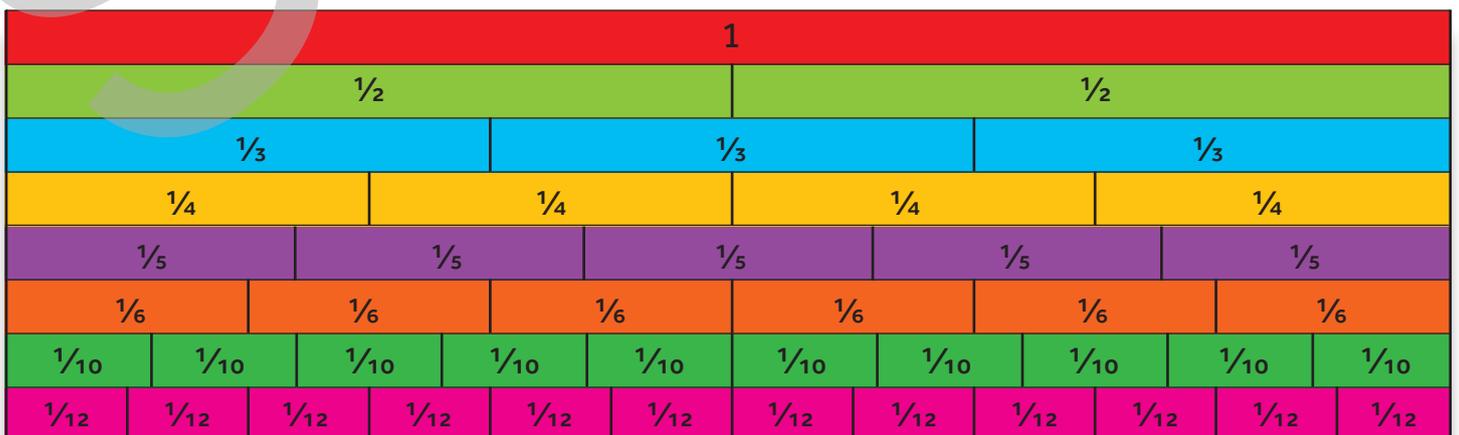
ten thousand	one thousand	one hundred	ten	one	one tenth	one hundredth	one thousandth	
10,000	1000	100	10	1	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$	
				0	7			$= \frac{7}{10}$
				0	2	3		$= \frac{23}{100}$

$\frac{2}{5}$ of 300 =   40% of 300 =   0.4 x 300

60	60	60	60	60

← 300 →

60	60	60	60	60

← 300 →

60	60	60	60	60

← 300 →
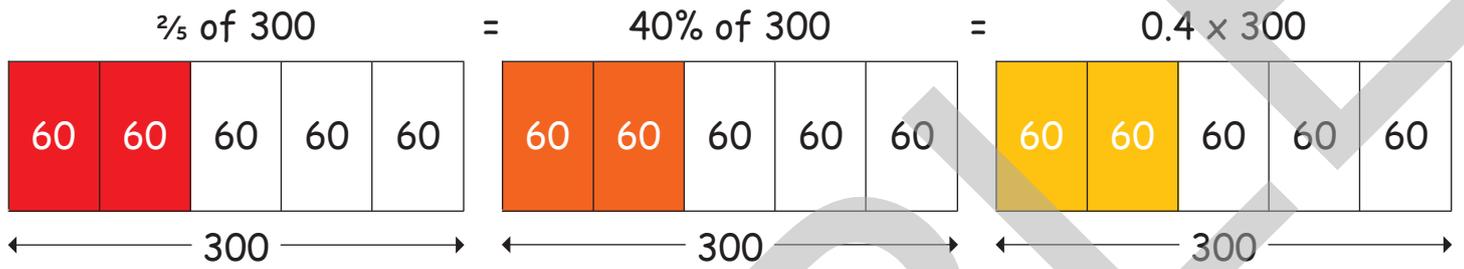
Measure
1kg = 1000g
$\frac{1}{2}$kg = 500g = 0.5kg
$\frac{1}{4}$kg = 250g = 0.25kg
1KG

Measure
1l = 1000ml
$\frac{1}{2}$l = 500ml = 0.5l
$\frac{1}{4}$l = 250ml = 0.25l

Measure
1km = 1000m
1m = 100cm
1cm = 10mm

Square
1 = 1^2
4 = 2^2
9 = 3^2
16 = 4^2

Cube
Cube numbers get their name from the pattern they make.
1^3 = 1x1x 1 = 1
2^3 = 2 x 2 x 2 = 2 = 8
3^3 = 3 x 3 x 3 = 3 = 27

Factors
Factors of 15 are...
1, 3, 5, 15
3 1
15 15
5 15
Factor-pillars

Multiples
Multiples of 8 are 8, 16, 24, 32,40...

Multiples of 12 are 12, 24, 36, 48...

What is the lowest common multiple of 8 and 12?

Primes
A prime number has 2 factors itself and 1

Prime time! This clock only shows prime numbers

Why is 8 not a prime number?