Grade 4 Math Cheat Sheet

Whole-number place value

Expanded form	**4,307 = 4,000 + 300 + 7**
Round to the nearest 100	**4,368 rounds to 4,400**
Check with division	**45 = 7 × 6 + 3**

A digit in the next place to the left is worth ten times as much.
The remainder is smaller than the divisor.

Multiply by place value

Split a factor	**23 × 4 = (20 × 4) + (3 × 4)**
Add the products	**80 + 12 = 92**

Multiply each place-value part, then add.

Divide with a remainder

Divide	**58 ÷ 6 → 9 remainder 4**
Check	**6 × 9 + 4 = 58**

The remainder must be smaller than the divisor.

Equivalent fractions

Multiply both parts	**2/3 = 4/6**
Divide both parts	**8/12 = 2/3**
Tenths to hundredths	**7/10 = 70/100**

Use the same nonzero factor for numerator and denominator.
To compare, use a shared denominator or benchmark.

Working with like fractions

Add like units	**1/8 + 3/8 = 4/8**
Subtract like units	**7/10 − 2/10 = 5/10**
Repeat a fraction	**3 × 2/5 = 6/5**

When parts are the same size, add or subtract their counts and keep the denominator.

Rectangle perimeter and area

Distance around	**P = 2(L + w)**
Space inside	**A = L × w**
Example: 7 by 4	**P = 22 units; A = 28 units^2**

L is the length and w is the width.
Perimeter uses length units. Area uses square units.

Find elapsed time

Start at 2:45 p.m.	**+15 min → 3:00 p.m.**
Continue to 3:20 p.m.	**+20 min → 3:20 p.m.**
Total time	**15 + 20 = 35 min**

Count up to the next hour, then add the remaining minutes.

Add adjacent angles

Parts of an angle	**35° + 50° = 85°**
A right angle	**90°**

Add the measures when the parts share a side and do not overlap.