

Measuring Weight in Grams and Kilograms

NCTM Standards 1, 2, 6, 7, 8, 9, 10

Complete the tables.

1	Kilograms	1	2	3	5	8	10	12	15
	Grams	1,000							

2	Kilograms	0	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$
	Grams	0	500						

3	Kilograms		$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$			$3\frac{3}{4}$	
	Grams	0			750	1,000	2,250		5,500

4	Yards	1	2	3	5	10		$\frac{5}{6}$	$1\frac{1}{6}$
	Feet	3					$4\frac{1}{2}$		
	Inches	36						30	42

5	Hours	0	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$
	Minutes	0		60					
	Seconds	0		3,600					

Solve.

- 6 If a paper clip weighs about 1 gram, about how much do 273 paper clips weigh?

- 7 If 3,016 large paper clips weigh about 6 kilograms, about how much does 1 large paper clip weigh?

- 8 There are 250 paper clips in a box. Each box weighs $\frac{1}{4}$ of a kilogram.

How many boxes weigh $3\frac{1}{2}$ kilograms? _____

How many boxes weigh 7 kilograms? _____

How many boxes weigh 70 kilograms? _____

- 9 Could a car weigh 5 kilograms?



- 10 Could a book weigh 5 kilograms?



- 11 Challenge** A kilogram is a little heavier than 2 pounds. Write $<$, $>$, or $=$.

2 kilograms 4 pounds

3 kilograms 10 pounds

3 kilograms 3 pounds

$5\frac{1}{2}$ kilograms 10 pounds