

Gemstone Weights and Measures

Searching for the carat weight of your favourite gemstone? Use these charts as guide.

Round Gemstones

Round Faceted Gemstone Weight Chart *approximate weights

	2mm	3mm	4mm	5mm	6mm	6.5mm	7mm	8mm	10mm
Ruby	.05 ct	.15 ct	.34 ct	.65 ct	1.05 ct	1.41 ct	1.60 ct	2.25 ct	4.50 ct
Sapphire	.05 ct	.15 ct	.34 ct	.65 ct	1.05 ct	1.41 ct	1.60 ct	2.25 ct	4.50 ct
Emerald	.04 ct	.12 ct	.27 ct	.48 ct	.80 ct	1.26 ct	1.70 ct	2.50 ct	6.10 ct
Diamond	.04 ct	.10 ct	.23 ct	.47 ct	.90 ct	-	1.35 ct	1.90 ct	4.25 ct
Alexandrite	.04 ct	.12 ct	.35 ct	.63 ct	1.30 ct	1.86 ct	2.15 ct	2.90 ct	5.20 ct
Amethyst	.04 ct	.10 ct	.20 ct	.40 ct	.70 ct	1.10 ct	1.30 ct	1.80 ct	3.30 ct
Aquamarine	.04 ct	.10 ct	.25 ct	.45 ct	.75 ct	1.31 ct	1.60 ct	2.40 ct	3.50 ct

Citrine	.04 ct	.10 ct	.20 ct	.40 ct	.70 ct	1.10 ct	1.30 ct	1.80 ct	3.30 ct
Garnet	.05 ct	.13 ct	.30 ct	.60 ct	1.00 ct	1.40 ct	1.60 ct	2.50 ct	5.75 ct
Opal	.02 ct	.09 ct	.16 ct	.34 ct	.57 ct	.75 ct	.83 ct	1.30 ct	2.00 ct
Peridot	.05 ct	.12 ct	.26 ct	.50 ct	.85 ct	1.11 ct	1.25 ct	2.00 ct	5.25 ct
Topaz	.04 ct	.11 ct	.30 ct	.56 ct	1.00 ct	1.36 ct	1.55 ct	2.50 ct	5.75 ct
Tourmaline	.04 ct	.12 ct	.24 ct	.45 ct	.75 ct	1.28 ct	1.55 ct	2.00 ct	3.00 ct
Zircon	.06 ct	.17 ct	.36 ct	.69 ct	1.25 ct	1.58 ct	1.75 ct	2.60 ct	5.00 ct

Marquise Gemstones


Marquise Faceted Gemstone Weight Chart *approximate weights

	4x2mm	5x3mm	6x3mm	7x3.5mm	8x4mm	10x5mm	12x6mm	14x7mm
Ruby	.13 ct	.24 ct	.35 ct	.55 ct	.75 ct	1.15 ct	2.20 ct	3.00 ct
Sapphire	.13 ct	.24 ct	.35 ct	.55 ct	.75 ct	1.15 ct	2.20 ct	3.00 ct
Emerald	.09 ct	.19 ct	.30 ct	.45 ct	.60 ct	1.40 ct	1.80 ct	2.80 ct
Diamond	.12 ct	.18 ct	.25 ct	.37 ct	.50 ct	1.00 ct	2.00 ct	3.00 ct
Alexandrite	.07 ct	.20 ct	.30 ct	.50 ct	.70 ct	1.25 ct	2.10 ct	3.50 ct
Amethyst	.10 ct	.15 ct	.20 ct	.34 ct	.48 ct	.90 ct	1.59 ct	2.45 ct
Aquamarine	.08 ct	.14 ct	.20 ct	.25 ct	.50 ct	.80 ct	1.50 ct	2.75 ct
Citrine	.10 ct	.15 ct	.20 ct	.35 ct	.50 ct	.90 ct	1.59 ct	2.45 ct
Garnet	.09 ct	.16 ct	.25 ct	.42 ct	.60 ct	1.20 ct	2.00 ct	2.85 ct

Opal	.09 ct	.13 ct	.17 ct	.27 ct	.37 ct	.59 ct	1.00 ct	1.25 ct
Peridot	.10 ct	.17 ct	.25 ct	.37 ct	.50 ct	1.00 ct	2.00 ct	2.55 ct
Topaz	.07 ct	.17 ct	.30 ct	.50 ct	.70 ct	1.20 ct	2.00 ct	3.40 ct
Tourmaline	.10 ct	.20 ct	.30 ct	.45 ct	.60 ct	.85 ct	1.55 ct	2.20 ct
Zircon	.13 ct	.23 ct	.33 ct	.55 ct	.75 ct	1.25 ct	1.95 ct	3.00 ct

Octagon Cut Gemstones


Octagon Faceted Gemstone Weight Chart *approximate weights

	5x3mm	6x4mm	7x5mm	8x6mm	9x7mm	10x8mm	11x9mm	12x10mm	14x10mm
Ruby	.55 ct	.75 ct	1.15 ct	1.60 ct	2.30 ct	2.75 ct	4.00 ct	6.25 ct	9.00 ct
Sapphire	.55 ct	.75 ct	1.15 ct	1.75 ct	2.30 ct	2.75 ct	4.00 ct	6.25 ct	9.00 ct
Emerald	.30 ct	.60 ct	.90 ct	1.80 ct	2.31 ct	3.15 ct	4.50 ct	5.25 ct	5.80 ct
Diamond	.25 ct	.50 ct	1.00 ct	1.50 ct	3.00 ct	4.00 ct	5.00 ct	7.80 ct	8.80 ct
Alexandrite	.40 ct	.70 ct	1.30 ct	2.60 ct	3.60 ct	4.20 ct	6.00 ct	8.50 ct	9.90 ct
Amethyst	.35 ct	.55 ct	1.00 ct	1.60 ct	2.25 ct	2.90 ct	4.20 ct	5.60 ct	7.25 ct
Aquamarine	.25 ct	.50 ct	.80 ct	1.40 ct	2.00 ct	3.00 ct	4.30 ct	4.75 ct	7.75 ct
Citrine	.35 ct	.55 ct	1.00 ct	1.60 ct	2.25 ct	2.90 ct	4.20 ct	5.60 ct	7.25 ct
Garnet	.40 ct	.80 ct	1.20 ct	1.70 ct	2.50 ct	3.50 ct	4.30 ct	6.35 ct	9.00 ct
Peridot	.35 ct	.60 ct	1.00 ct	1.70 ct	2.25 ct	3.80 ct	5.25 ct	6.25 ct	8.80 ct
Topaz	.40 ct	.65 ct	1.25 ct	2.40 ct	3.40 ct	4.00 ct	5.75 ct	8.00 ct	9.50 ct

Tourmaline	.30 ct	.60 ct	1.60 ct	2.15 ct	2.80 ct	3.60 ct	4.30 ct	5.20 ct	8.50 ct
Zircon	.60 ct	.85 ct	1.70 ct	2.35 ct	3.90 ct	4.50 ct	6.20 ct	7.01 ct	8.95 ct

Oval Cut Gemstones


Oval Faceted Gemstone Weight Chart *approximate weights

	5x3mm	6x4mm	7x5mm	8x6mm	9x7mm	10x8mm	11x9mm	12x10mm	14x10mm
Ruby	.35 ct	.60 ct	1.06 ct	1.55 ct	2.20 ct	3.15 ct	3.80 ct	6.00 ct	7.25 ct
Sapphire	.35 ct	.60 ct	1.00 ct	1.55 ct	2.20 ct	3.15 ct	3.80 ct	6.00 ct	7.25 ct
Emerald	.25 ct	.52 ct	.85 ct	1.26 ct	1.90 ct	2.60 ct	3.75 ct	5.00 ct	7.50 ct
Diamond	.25 ct	.50 ct	.75 ct	1.40 ct	2.00 ct	3.00 ct	4.00 ct	5.00 ct	8.00 ct
Alexandrite	.30 ct	.51 ct	.80 ct	1.45 ct	2.00 ct	3.60 ct	4.25 ct	6.00 ct	8.90 ct
Amethyst	.23 ct	.45 ct	.85 ct	1.25 ct	1.75 ct	2.40 ct	3.20 ct	4.50 ct	6.50 ct
Aquamarine	.20 ct	.40 ct	.75 ct	1.10 ct	1.75 ct	2.25 ct	3.00 ct	4.50 ct	6.75 ct
Citrine	.23 ct	.45 ct	.85 ct	1.25 ct	1.75 ct	2.40 ct	3.25 ct	4.20 ct	5.20 ct
Garnet - Mozambique	.25 ct	.55 ct	1.00 ct	1.40 ct	2.10 ct	2.80 ct	3.75 ct	5.00 ct	7.00 ct
Garnet - Rhodolite	.25 ct	.55 ct	1.00 ct	1.40 ct	2.10 ct	2.80 ct	-	-	-
Iolite	.21 ct	.40 ct	.63 ct	1.02 ct	-	-	-	-	-
Opal	.16 ct	.28 ct	.47 ct	.78 ct	1.10 ct	1.65 ct	2.15 ct	3.00 ct	4.00 ct
Peridot	.28 ct	.50 ct	.95 ct	1.35 ct	2.00 ct	2.50 ct	3.50 ct	4.00 ct	6.00 ct

Tanzanite	.20 ct	.48 ct	.89 ct	1.35 ct	-	-	-	-	-
Topaz	.28 ct	.57 ct	1.10 ct	1.60 ct	2.50 ct	3.50 ct	4.50 ct	6.00 ct	8.80 ct
Tourmaline	.25 ct	.50 ct	.90 ct	1.18 ct	2.30 ct	2.90 ct	3.50 ct	5.25 ct	6.80 ct
Tsavorite	.28 ct	.52 ct	.75 ct	-	-	-	-	-	-
Zircon	.40 ct	.75 ct	1.45 ct	2.00 ct	2.85 ct	4.00 ct	5.60 ct	7.50 ct	8.20 ct

Pear Gemstones

Pear Faceted Gemstone Weight Chart *approximate weights

	5x3mm	6x4mm	7x5mm	8x6mm	9x6mm	10x7mm	12x8mm	14x9mm
Ruby	.30 ct	.50 ct	.75 ct	1.00 ct	1.85 ct	2.50 ct	4.75 ct	7.90 ct
Sapphire	.30 ct	.50 ct	.75 ct	1.00 ct	1.85 ct	2.50 ct	4.75 ct	7.90 ct
Emerald	.25 ct	.45 ct	.70 ct	1.05 ct	1.70 ct	2.60 ct	4.15 ct	6.10 ct
Diamond	.25 ct	.50 ct	.75 ct	1.00 ct	1.50 ct	2.00 ct	3.50 ct	5.00 ct
Alexandrite	.30 ct	.50 ct	.85 ct	1.10 ct	2.10 ct	3.60 ct	6.60 ct	8.80 ct
Amethyst	.20 ct	.35 ct	.65 ct	.85 ct	1.25 ct	1.70 ct	4.00 ct	5.00 ct
Aquamarine	.20 ct	.35 ct	.65 ct	.90 ct	1.30 ct	1.85 ct	4.20 ct	5.60 ct
Citrine	.20 ct	.35 ct	.65 ct	.85 ct	1.30 ct	1.70 ct	4.00 ct	5.00 ct
Garnet	.25 ct	.40 ct	1.00 ct	1.15 ct	1.30 ct	1.80 ct	3.50 ct	5.80 ct
Opal	.13 ct	.22 ct	.35 ct	.50 ct	.70 ct	1.03 ct	1.40 ct	2.45 ct
Peridot	.25 ct	.45 ct	.70 ct	.80 ct	1.10 ct	1.40 ct	3.40 ct	4.75 ct

Topaz	.25 ct	.50 ct	1.00 ct	1.10 ct	2.00 ct	3.50 ct	6.50 ct	8.50 ct
Tourmaline	.35 ct	.45 ct	.60 ct	.90 ct	1.10 ct	1.40 ct	2.80 ct	6.75 ct
Zircon	.30 ct	.70 ct	1.00 ct	1.30 ct	2.60 ct	4.00 ct	5.25 ct	7.50 ct

Diamond Conversion Charts

Diamonds		
Round Cut	Decimal Inch	
mm width	decimal width	weight
1.0 mm	.039 inch	.005 carat
1.2 mm		.008 carat
1.3 mm		.01 carat
1.5 mm		.015 carat
1.7 mm		.02 carat
1.8 mm		.025 carat
2.0 mm	.079 inch	.03 carat
2.1 mm		.035 carat
2.2 mm		.04 carat
2.4 mm		.05 carat
2.5 mm		.06 carat
2.7 mm		.07 carat
2.8 mm		.08 carat
2.9 mm		.09 carat
3.0 mm	.118 inch	1/10 carat
3.1 mm		.11 carat
3.2 mm	.125 inch	.12 carat

3.3 mm		.14 carat
3.4 mm		.15 carat
3.5 mm		.16 carat
3.6 mm		.17 carat
3.7 mm		.18 carat
3.8 mm	.150 inch	1/5 carat
3.9 mm		.22 carat
4.0 mm	.158 inch	.23 carat
4.1 mm	.162 inch	1/4 carat
4.2 mm		.30 carat
4.4 mm	.173 inch	.33 carat
4.5 mm		.35 carat
4.6 mm	.181 inch	1/3 carat
4.8 mm		.40 carat
4.9 mm		.43 carat
5.0 mm	.197 inch	.47 carat
5.2 mm	.205 inch	1/2 carat
5.4 mm		.60 carat
5.5 mm		.63 carat
5.6 mm		.65 carat
5.8 mm	.228 inch	3/4 carat
6.0 mm	.236 inch	.80 carat
6.2 mm		.85 carat
6.4 mm		.95 carat
6.5 mm	.255 inch or 1/4 inch	1.00 carat
6.6 mm		1.10 carat
6.8 mm		1.17 carat

7.0 mm	.276 inch	1-1/4 carat
7.2 mm		1.33 carat
7.4 mm	.291 inch	1-1/2 carat
7.6 mm		1.60 carat
7.8 mm	.307 inch	1.75 carat
8.0 mm	.315 inch	1.90 carat
8.2 mm	.323 inch	2.00 carat
8.4 mm		2.15 carat

8.6 mm	.338 inch	2.25 carat
8.8 mm	.346 inch	2.50 carat
9.0 mm	.354 inch	2.65 carat
9.2 mm		2.85 carat
9.4 mm	.370 inch	3.00 carat
9.6 mm		3.15 carat
9.8 mm		3.35 carat
10.0 mm	.394 inch	3-1/2 carat

