

Activity (1 hour)	59 kg	70 kg	86 kg
Aerobics, general	354	422	518
Aerobics, high impact	413	493	604
Aerobics, low impact	295	352	431
Archery (non-hunting)	207	246	302
Automobile repair	177	211	259
Backpacking, general	413	493	604
Badminton, competitive	413	493	604
Badminton, social, general	266	317	388
Basketball, game	472	563	690
Basketball, nongame, general	354	422	518
Basketball, officiating	413	493	604
Basketball, shooting baskets	266	317	388
Basketball, wheelchair	384	457	561
Bicycling, <16 km/h, leisure	236	281	345
Bicycling, >32 km/h, racing	944	1126	1380
Bicycling, 16-19 km/h, light effort	354	422	518
Bicycling, 20-23 km/h, moderate effort	472	563	690
Bicycling, 24-26 km/h, vigorous effort	590	704	863
Bicycling, 27-30 km/h, very fast, racing	708	844	1035
Bicycling, BMX or mountain	502	598	733
Bicycling, stationary, general	295	352	431
Bicycling, stationary, light effort	325	387	474
Bicycling, stationary, moderate effort	413	493	604
Bicycling, stationary, very light effort	177	211	259
Bicycling, stationary, very vigorous effort	738	880	1078
Bicycling, stationary, vigorous effort	620	739	906
Billiards	148	176	216
Bowling	177	211	259
Boxing, in ring, general	708	844	1035
Boxing, punching bag	354	422	518
Boxing, sparring	531	633	776
Broomball	413	493	604
Calisthenics (pushups, sit-ups), vigorous effort	472	563	690
Calisthenics, home, light/moderate effort	266	317	388
Canoeing, on camping trip	236	281	345
Canoeing, rowing, >16 km/h, vigorous effort	708	844	1035
Canoeing, rowing, crewing, competition	708	844	1035
Canoeing, rowing, light effort	177	211	259
Canoeing, rowing, moderate effort	413	493	604
Carpentry, general	207	246	302
Carrying heavy loads, such as bricks	472	563	690
Child care: sitting/kneeling-dressing, feeding	177	211	259
Child care: standing-dressing, feeding	207	246	302
Circuit training, general	472	563	690
Cleaning, heavy, vigorous effort	266	317	388
Cleaning, house, general	207	246	302
Cleaning, light, moderate effort	148	176	216
Coaching: football, soccer, basketball, etc.	236	281	345
Construction, outside, remodeling	325	387	474
Cooking or food preparation	148	176	216
Cricket (batting, bowling)	295	352	431
Croquet	148	176	216
Curling	236	281	345
Dancing, aerobic, ballet or modern, twist	354	422	518
Dancing, ballroom, fast	325	387	474

Dancing, ballroom, slow	177	211	259
Dancing, general	266	317	388
Darts, wall or lawn	148	176	216
Diving, springboard or platform	177	211	259
Electrical work, plumbing	207	246	302
Farming, baling hay, cleaning barn	472	563	690
Farming, milking by hand	177	211	259
Farming, shoveling grain	325	387	474
Fencing	354	422	518
Fishing from boat, sitting	148	176	216
Fishing from river bank, standing	207	246	302
Fishing in stream, in waders	354	422	518
Fishing, general	236	281	345
Fishing, ice, sitting	118	141	173
Football or baseball, playing catch	148	176	216
Football, competitive	531	633	776
Football, touch, flag, general	472	563	690
Frisbee playing, general	177	211	259
Frisbee, ultimate	207	246	302
Gardening, general	295	352	431
Golf, carrying clubs	325	387	474
Golf, general	236	281	345
Golf, miniature or driving range	177	211	259
Golf, pulling clubs	295	352	431
Golf, using power cart	207	246	302
Gymnastics, general	236	281	345
Hacky sack	236	281	345
Handball, general	708	844	1035
Handball, team	472	563	690
Health club exercise, general	325	387	474
Hiking, cross country	354	422	518
Hockey, field	472	563	690
Hockey, ice	472	563	690
Horse grooming	354	422	518
Horse racing, galloping	472	563	690
Horseback riding, general	236	281	345
Horseback riding, trotting	384	457	561
Horseback riding, walking	148	176	216
Hunting, general	295	352	431
Jai alai	708	844	1035
Jogging, general	413	493	604
Judo, karate, kick boxing, tae kwan do	590	704	863
Kayaking	295	352	431
Kickball	413	493	604
Lacrosse	472	563	690
Marching band, playing instrument(walking)	236	281	345
Marching, rapidly, military	384	457	561
Moto-cross	236	281	345
Moving furniture, household	354	422	518
Moving household items, boxes, upstairs	531	633	776
Moving household items, carrying boxes	413	493	604
Mowing lawn, general	325	387	474
Mowing lawn, riding mower	148	176	216
Music playing, cello, flute, horn, woodwind	118	141	173
Music playing, drums	236	281	345
Music playing, guitar, classical, folk(sitting)	118	141	173

Music playing, guitar, rock/roll band(standing)	177	211	259
Music playing, piano, organ, violin, trumpet	148	176	216
Paddleboat	236	281	345
Painting, papering, plastering, scraping	266	317	388
Polo	472	563	690
Pushing or pulling stroller with child	148	176	216
Race walking	384	457	561
Racquetball, casual, general	413	493	604
Racquetball, competitive	590	704	863
Raking lawn	236	281	345
Rock climbing, ascending rock	649	774	949
Rock climbing, rapelling	472	563	690
Rope jumping, fast	708	844	1035
Rope jumping, moderate, general	590	704	863
Rope jumping, slow	472	563	690
Rowing, stationary, light effort	561	669	819
Rowing, stationary, moderate effort	413	493	604
Rowing, stationary, very vigorous effort	708	844	1035
Rowing, stationary, vigorous effort	502	598	733
Rugby	590	704	863
Running, 8 km/h (7.4 min km)	472	563	690
Running, 8.5 km/h (11.5 min mile)	531	633	776
Running, 9.6 km/h (10 min mile)	590	704	863
Running, 10.8 km/h (9 min mile)	649	774	949
Running, 11.3 km/h (8.5 min mile)	679	809	992
Running, 12 km/h (8 min mile)	738	880	1078
Running, 12.9 km/h (7.5 min mile)	797	950	1165
Running, 13.8 km/h (7 min mile)	826	985	1208
Running, 14.5 km/h (6.5 min mile)	885	1056	1294
Running, 16 km/h (6 min mile)	944	1126	1380
Running, 17.7 km/h (5.5 min mile)	1062	1267	1553
Running, cross country	531	633	776
Running, general	472	563	690
Running, in place	472	563	690
Running, on a track, team practice	590	704	863
Running, stairs, up	885	1056	1294
Running, training, pushing wheelchair	472	563	690
Running, wheeling, general	177	211	259
Sailing, boat/board, windsurfing, general	177	211	259
Sailing, in competition	295	352	431
Scrubbing floors, on hands and knees	325	387	474
Shoveling snow, by hand	354	422	518
Shuffleboard, lawn bowling	177	211	259
Sitting-playing with child(ren)-light	148	176	216
Skateboarding	295	352	431
Skating, ice, 14 km/h or less	325	387	474
Skating, ice, general	413	493	604
Skating, ice, rapidly, > 14 km/h	531	633	776
Skating, ice, speed, competitive	885	1056	1294
Skating, roller	413	493	604
Ski jumping (climb up carrying skis)	413	493	604
Ski machine, general	561	669	819
Skiing, cross-country, >13 km/h, racing	826	985	1208
Skiing, cross-country, moderate effort	472	563	690
Skiing, cross-country, slow or light effort	413	493	604
Skiing, cross-country, uphill, maximum effort	974	1161	1423

Skiing, cross-country, vigorous effort	531	633	776
Skiing, downhill, light effort	295	352	431
Skiing, downhill, moderate effort	354	422	518
Skiing, downhill, vigorous effort, racing	472	563	690
Skiing, snow, general	413	493	604
Skiing, water	354	422	518
Ski-mobiling, water	413	493	604
Skin diving, scuba diving, general	413	493	604
Sledding, tobogganing, bobsledding, luge	413	493	604
Snorkeling	295	352	431
Snow shoeing	472	563	690
Snowmobiling	207	246	302
Soccer, casual, general	413	493	604
Soccer, competitive	590	704	863
Softball or baseball, fast or slow pitch	295	352	431
Softball, officiating	354	422	518
Squash	708	844	1035
Stair-treadmill ergometer, general	354	422	518
Standing-packing/unpacking boxes	207	246	302
Stretching, hatha yoga	236	281	345
Surfing, body or board	177	211	259
Sweeping garage, sidewalk	236	281	345
Swimming laps, freestyle, fast, vigorous effort	590	704	863
Swimming laps, freestyle, light/moderate effort	472	563	690
Swimming, backstroke, general	472	563	690
Swimming, breaststroke, general	590	704	863
Swimming, butterfly, general	649	774	949
Swimming, leisurely, general	354	422	518
Swimming, sidestroke, general	472	563	690
Swimming, synchronized	472	563	690
Swimming, treading water, fast/vigorous	590	704	863
Swimming, treading water, moderate effort	236	281	345
Table tennis, ping pong	236	281	345
Tai chi	236	281	345
Teaching aerobics class	354	422	518
Tennis, doubles	354	422	518
Tennis, general	413	493	604
Tennis, singles	472	563	690
Unicycling	295	352	431
Volleyball, beach	472	563	690
Volleyball, competitive, in gymnasium	236	281	345
Volleyball, noncompetitive; 6-9 member team	177	211	259
Walk/run-playing with child(ren)-moderate	236	281	345
Walk/run-playing with child(ren)-vigorous	295	352	431
Walking, 3.2 km/h, slow pace	148	176	216
Walking, 4.8 km/h, mod. pace, walking dog	207	246	302
Walking, 5.6 km/h, uphill	354	422	518
Walking, 6.4 km/h, very brisk pace	236	281	345
Walking, carrying infant or 7 kg load	207	246	302
Walking, grass track	295	352	431
Walking, upstairs	472	563	690
Walking, using crutches	236	281	345
Wallyball, general	413	493	604
Water aerobics, water calisthenics	236	281	345
Water polo	590	704	863
Water volleyball	177	211	259

Weight lifting or body building, vigorous effort	354	422	518
Weight lifting, light or moderate effort	177	211	259
Whitewater rafting, kayaking, or canoeing	295	352	431