Workout 2

181. _____ inches   If a television screen with a length-to-height ratio of 16:9 has an area of 576 in², what is its perimeter?.

182. _____ miles   Alex Zhu bikes between home and school every day. He uses the same route to go to and from school, but it takes him 20 minutes to bike to school and only 15 minutes to bike back. If his average biking pace for the whole round-trip is 7 minutes per mile, how many miles long is the trip from home to school? Express your answer as a decimal to the nearest tenth.

183. _____ m/s   Bruce and Lawson are playing ice hockey. Bruce shoots the puck at the goal 40 meters directly in front of him at a speed of 50 m/s. If Lawson is standing exactly 30 meters to the left of Bruce, what is the minimum speed at which he must skate, to reach the goal when the puck does? Express your answer as a decimal to the nearest tenth.

184. $ _____   In 2015 the average two-adult family in a particular town paid $619 per month for groceries, excluding sales tax. If groceries in this town were subject to a 9% sales tax, how much sales tax was paid by the average two-adult family in one month?

185. $ _____   Linda makes 6 cakes per hour. Sara makes 4 cakes per hour. If Linda gets paid $11 less than Sara for each cake, how much in dollars should Sara be paid for each cake for Linda and Sara to earn the same amount each hour?

186. _____ yards   In a golf long-drive competition, Jason Zuback hits his first five drives 394, 401, 387, 414 and 421 yards, respectively. How long must he hit his sixth drive to ensure that the mean of his six drives is at least 400 yards?

187. _____ km   A pilot flying due east is forced to make a detour from her original route to avoid turbulent weather. The pilot turns 30 degrees north of east. After traveling some distance, she turns and rejoins her original route and is 1000 km away from where she took the detour. The turn back to her original route put her at a 45 degree angle to that route. How much farther did the pilot travel due to her detour? Express your answer to the nearest whole kilometer.

188. _____   What is 12% of $\frac{3}{4}$ of 1.8? Express your answer to the nearest thousandth.

189. _____ ways   In how many different ways can four people be seated around a circular table so that no one ever has the same two neighbors more than once?

190. _____ fluid ounces   A cylindrical container holds 20 fluid ounces. It has a radius of 3 inches and a height of 12 inches. How many fluid ounces will a similar container with a radius of 4.5 inches hold? Express your answer as a decimal to the nearest tenth.

Workout 1

Answer	Difficulty			
171. 3/8	(2)	176.	33	(3)
172. 2.8	(4)	177.	14	(3)
173. 263	(5)	178.	144	(4)
174. 135	(3)	179.	5000	(3)
175. 30.4	(2)		or 5000.00	
		180.	87,672	(3)

Workout 2

Answer	Difficulty			
181. 100	(3)	186.	383	(2)
182. 2.5	(5)	187.	250	(5)
183. 62.5	(5)	188.	0.162	(2)
184. 55.71	(2)	189.	3	(4)
185. 33	(4)	190.	67.5	(4)

Workout 3

Answer	Difficulty			
191. 1530	(3)	196.	70	(3)
192. 45	(3)	197.	150π	(3)
193. 34	(3)	198.	127,750,000	(2)
194. 44	(4)	199.	26	(4)
195. 14	(3)	200.	70	(3)

Workout 4

Answer	Difficulty			
201. 75	(2)	206.	1/3	(4)
202. 1.01	(3)	207.	32/45	(3)
203. 28	(3)	208.	30	(2)
204. 0.924	(5)	209.	1300	(3)
205. 35.7	(3)	210.	2	(4)

Workout 5

Answer	Difficulty			
211. 3375	(5)	216.	3	(3)
212. 57	(4)	217.	20 or 20.00	(3)
213. 1,036,800	(5)	218.	4	(4)
214. 11	(5)	219.	50	(2)
215. $64 + 128\sqrt{2}$	(5)	220.	4/7	(4)
or $128\sqrt{2} + 64$				

Workout 6

Answer	Difficulty			
221. 37.9	(5)	226.	52	(5)
222. 25	(2)	227.	2996	(3)
223. 7.6	(4)	228.	6	(3)
224. 28	(3)	229.	11	(4)
225. 1.47	(5)	230.	360	(4)

Workout 7

Answer	Difficulty			
231. 45	(4)	236.	78	(5)
232. 4	(6)	237.	128	(5)
233. Thursday	(4)	238.	−1516.75	(4)
234. 8/51	(3)	239.	225	(3)
235. 72	(5)		or 225.00	
		240.	24π	(5)

Workout 8

Answer	Difficulty			
241. 144	(4)	246.	11	(5)
242. 816	(5)	247.	26	(5)
243. 1729	(6)	248.	195	(6)
244. 5	(4)	249.	$3\sqrt{7}$	(6)
245. 4.7	(6)	250.	87	(6)