

Page 19 cont...

- 190. \$37.50
- 191. \$17
- 192. 75.7% (1 dp)
- 193. 600 boys
- 194. a) \$914.16  
b) \$68.56  
c) \$86.85  
d) \$83

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- 195. \$258.30
- 196. 126.1
- 197. \$41.56
- 198. \$47.25
- 199. \$110.98
- 200. \$3499.13
- 201. 506 pupils
- 202. \$649 900
- 203. 1544 or 1545
- 204. \$19 125

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- 205. 31.4 % (1 dp)
- 206. 23.1 % (1 dp)
- 207. 10.7% (1 dp)
- 208. 20.8% (1 dp)
- 209. 38.0 % (1 dp)
- 210. 46.6% (1 dp)
- 211. \$182.61
- 212. \$430.43
- 213. \$45
- 214. \$2086.96
- 215. \$168.18
- 216. \$133.90
- 217. \$476.86
- 218. 12.0% (1 dp)

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- 219. a) \$314.50  
b) \$254.75  
c) 11.3% (1 dp)  
d) Receives \$266.00 now so better off by \$11.25  
e) 77.6% (1 dp)

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220. a)

Commission – Company A	\$210 000
Flat fee of \$400	\$400
4.5% of \$100 000	\$4500
2.5% of \$110 000	\$2750
Total (excluding GST)	\$7650
Total (including GST of 15%)	\$8797.50

b)

Commission – Company B	\$210 000
Flat fee	\$250
4% of \$80 000	\$3200
3.5% of \$130 000	\$4550
Total (excluding GST)	\$8000
Total (including GST of 15%)	\$9200

- c) \$402.50
- d) 4.4% (1 dp)

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- 221. \$7024.64
- 222. \$23 534.07
- 223. 14.4% more (1 dp)
- 224. a) \$30.52  
b) \$15.52  
c) 103.5%
- 225. a) Option 1 = \$7693.12  
Option 2 = \$8525  
Option 2 better by \$831.88  
b) 10.8%  
c) 11.3%

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- 226. 1 : 2
- 227. 1 : 16
- 228. 1 : 3
- 229. 2 : 3
- 230. 16 : 1
- 231. 2 : 5
- 232. 3 : 4 : 10
- 233. 4 : 9 : 3
- 234. 3 : 5
- 235. 1 : 50
- 236. 1 : 6
- 237. 2 : 3 : 5
- 238. 10 : 6 : 2 : 1
- 239. 1 : 30
- 240. 1 : 100 000

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- 241. 3 : 10
- 242.  $w = 35$
- 243.  $x = 144$
- 244.  $y = 2.33$  (2 dp)
- 245.  $z = 12$
- 246. \$12, \$20
- 247. 30 L, 10 L
- 248. \$49.78, \$78.22
- 249. 4.75 L , 0.25 L
- 250. 1.2 m, 2.4 m, 1.6 m
- 251. \$8.95, \$5.37, \$14.32, \$7.16
- 252. \$6.60, \$11.00
- 253. \$66, \$55, \$22
- 254. Alysia = \$144  
Barbara = \$96
- 255. Clare = \$26.67  
Dennis = \$20  
Elliot = \$33.33
- 256. \$3400 and \$5100
- 257. \$480 and \$200

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- 258. \$15
- 259. 1.56 litres
- 260. 12 cows
- 261. 56 kg
- 262. a) 1333 g (1.333 kg)  
b) 67 500 L  
c) \$247.50  
d) \$224.24  
e) 162.5 ml  
f) 7.5 km  
g) 3 gold medals.

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- 263.  $24 + 48 + 60 = 132$
- 264. 10 men
- 265. 161.5 units of copper and 28.5 units of iron
- 266. 85 grams

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- 267. 30 scientific and 10 algebraic calculators.
- 268. 24 males
- 269. Construction cost = \$262 500  
Total cost = \$375 000