**Feeds and speeds quiz and answer key**

1. What is the SFM of a 5 flute 1/2” HSS flat end mill with an RPM of 6,500?
   1. 850 SFM
2. What is the RPM of a 4 flute 2” face mill running 400 SFM?
   1. 764 RPM
3. What is the chip load for a 5 flute carbide 1/2” end mill running at 10,000 RPM in aluminum with a recommended IPT of .0025?
   1. .0125 IPR
4. What is the IPM for a 5 flute carbide 1/2" endmill with an RPM of 3,819 cutting mild steel with an IPT of .0017?
   1. 32 IPM
5. What is the IPM for a 2” face mill with an SFM of 2,000 when cutting aluminum with an IPR of .015?
   1. 57 IPM
6. What is the SFM of a 3 flute 3/4” Carbide flat end mill with an RPM of 10,000?
   1. 1,963 SFM
7. What is the IPR for a 3 flute HSS 3/8” bullnose end mill running at 200 SFM in high carbon steel with a recommended IPT of .0018?
   1. .0054 IPR
8. What is the IPM for a 3 flute HSS 1/4” end mill with an RPM of 10,000 cutting acetal with an IPT of .008” IPT?
   1. 240 IPM
9. What is the IPM for a 5 flute carbide 1/4" bullnose end mill with an IPR of .0125 cutting mild steel at 4,000 RPM?
   1. 50 IPM
10. What is the RPM of a 2 flute HSS 9/16” drill running at 90 SFM?
    1. 611 RPM
11. What is the SFM of a 2 flute 1/4” carbide drill with an RPM of 4,500?
    1. 294 SFM
12. What is the RPM of a 3 flute carbide 1/2” bullnose end mill running at 1,000 SFM?
    1. 7,640 RPM
13. What is the chip load for a 5 flute carbide 3/4” end mill with a SFM of 200 to 250 in low carbon steel with a recommended IPT of .0028?
    1. .014 IPR
14. What is the IPM for a 5 flute carbide 5/8” end mill with an RPM 1,225 cutting high carbon steel with an IPT of .0019?
    1. 12 IPM
15. What is the IPM for a 2 flute carbide 3/4" flat end mill with an IPR of .016 cutting UHMW at 10,000 rpm?
    1. 160 IPM
16. What is the SFM of a 5 flute 1/8” carbide bullnose end mill with an RPM of 6,111?
    1. 200 SFM
17. What is the RPM of a 3 flute carbide .201” drill running at 400 SFM?
    1. 7,601 RPM
18. What is the IPR for a 7 flute carbide 1/2” bullnose end mill with an RPM of 1,500 in titanium with a recommended IPT of .0017?
    1. .0119 IPR
19. What is the IPM for a 3 flute HSS 3/8” end mill with an RPM of 10,000 cutting aluminum with an IPT of .003?
    1. 90 IPM
20. What is the IPM for a 7 flute carbide 3/8” flat end mill with an IPR of .00672 cutting titanium at 150 SFM?
    1. 10 IPM
21. What is the SFM of a 2 flute 3/4” HSS flat end mill with an RPM of 5,500?
    1. 1,080
22. What is the RPM of a 2 flute 5/16” drill running at 300 SMF?
    1. 3,667 RPM
23. What is the IPM for a 3 flute carbide 1/2” end mill with an IPR of .0165 cutting aluminum at 1,000 SFM?
    1. 126 IPM
24. What is the IPR for a 3 flute HSS 1/4” flat end mill with an SFM of 300 cutting aluminum with a recommend chip load of .0025?
    1. .0075 IPR
25. What is the IPM for a 5 flute Carbide 1/4” end mill with an IPR of .004 cutting Titanium at 150 SFM?
    1. 9 IPM