

Math 3201 - Unit 1 - mid-year review.

1. C
2. B
3. C
4. C
5. B
6. C
7. C

11. a) $T = 2, 4, 6, 8, 10, 12, 14, 16, 18, 20$

$n(T) = 10$

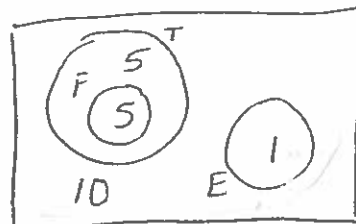
$F = 4, 8, 12, 16, 20$

$n(F) = 5$

$E = 11$

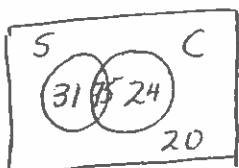
$n(E) = 1$

none = 1, 3, 5, 7, 9, 13, 15, 17, 19, 21



b) $n(E \cup T) = 10 + 1 = 11$

12. a)



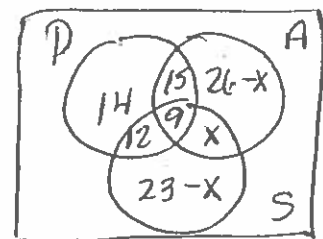
$$\begin{aligned} 106 + 99 + 20 \\ = 225 \\ - 150 \\ \hline 75 \end{aligned}$$

b) $n(S \cap C) = 20$

c) $n(S \setminus C) = 31$

d) $n(C \setminus S) = 24$

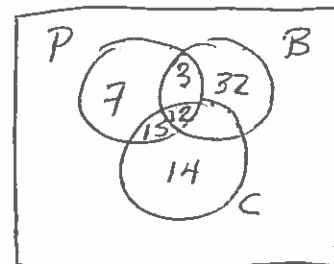
13. a)



b) $x = 16$

c) $14 + 10 + 7 = 31$

14.



$n(\text{take at least 2}) = 51$

Total # = 104

$\% = \frac{51}{104} = 49\%$