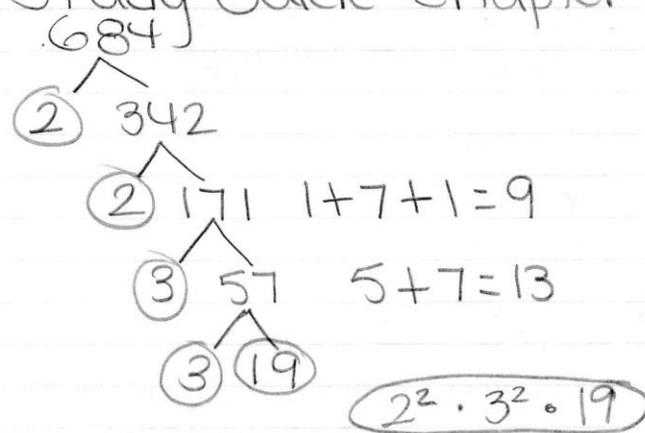
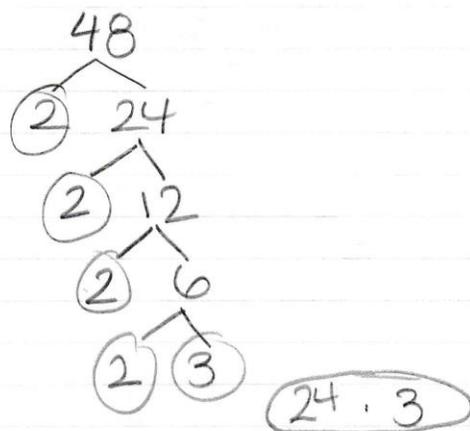
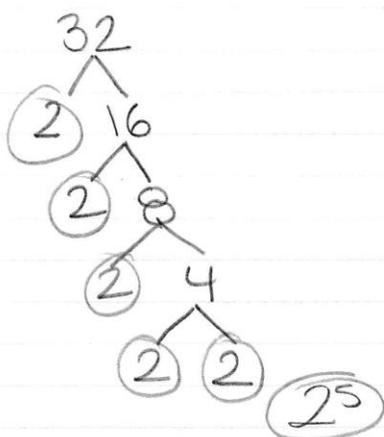


Study Guide Chapter 5

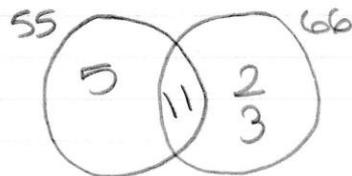
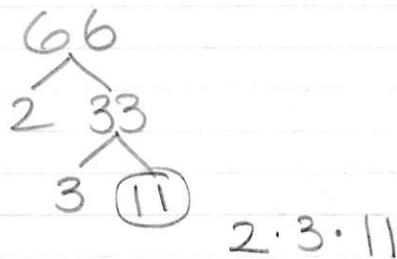
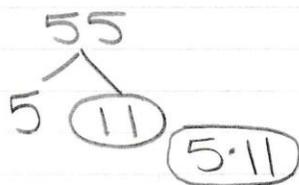
1.



2.



3.



$$5 \times 11 \times 2 \times 3 = \textcircled{330}$$

$$4. -13^{\circ}\text{F} + 13^{\circ}\text{F} = 0^{\circ}\text{F} + 46^{\circ}\text{F} = 46^{\circ}\text{F}$$

$$13^{\circ}\text{F} + 46^{\circ}\text{F} = \textcircled{59^{\circ}\text{F}}$$

$$5. 4^2 - 8 \div 2^2 \times 4 \times 6$$

$$16 - 8 \div 4 \times 4 \times 6$$

$$16 - 2 \times 4 \times 6$$

$$16 - 8 - 6$$

$$8 - 6 = \textcircled{2}$$

$$6. (5-14) \times [(80+20 \div 5) - (7 \times 7 - 2 \times 2)]$$

$$38 \times [(80+4) - (49 - 4)]$$

$$= 38 \times (84 - 45)$$

$$= 38 \times 39$$

$$= \textcircled{1482}$$

$$7.$$

$$\begin{array}{r} 0.375 \\ 8 \overline{) 3.000} \\ \underline{-24} \\ 56 \\ \underline{-56} \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

$$8. \left(\frac{1}{4} \times \frac{1}{2}\right) + \left(\frac{2}{5} \div \frac{4}{3}\right)$$

$$10 \times \frac{1}{8} + \frac{3}{10} \times 8 = \frac{10}{30} + \frac{24}{80} = \frac{34}{80} \div 2 = \frac{17}{40}$$

9. $9\frac{1}{2} \text{ cm} = \frac{19}{2} \text{ cm} = 9.5 \text{ cm} \times 4 = \textcircled{38}$

10. $\frac{3}{8} \text{ mi}$ and $\frac{1}{10} \text{ mi}$
$$\frac{30+8}{80} = \frac{38}{80} \div 2 = \frac{19}{40}$$

11. $\sqrt{5} + \sqrt{20}$
 $\sqrt{5} + \sqrt{4.5}$
 $\sqrt{5} + 2\sqrt{5}$
 $\textcircled{3\sqrt{5}}$

12. $\frac{2}{\sqrt{7}} \times \frac{\sqrt{7}}{\sqrt{7}} = \frac{2\sqrt{7}}{(\sqrt{7})^2} = \frac{2\sqrt{7}}{7}$

14. $3^5 \times 3^2 = 3^7 = \textcircled{2187}$

15. $(-7)^0 = \textcircled{1}$
because -7 is elevated to zero

16. $(-2)^3 = (-2)(-2)(-2) = \textcircled{-8}$

17. $(4^2)^3$
 $4^6 = \textcircled{4096}$

18. $5.9 \times 10^3 \times 8 = \textcircled{47.2 \times 10^4}$