

Chapter 7 Test

1. $61\%, \frac{61}{100}, 0.61$

2. $199\%, \frac{199}{100}, 1.99$

3a. $67\% = 0.67$

3b. $12.3\% = 0.123$

3c. $9\frac{3}{4}\% = 9.75\% = 0.0975$

4a. $\frac{1}{4} = 0.25 = 25\%$

4b. $\frac{5}{8} = 0.625 = 62.5\%$

4c. $\frac{3}{25} = 0.12 = 12\%$

5a. $0.19 = 19\%$

5b. $3.47 = 347\%$

5c. $0.0005 = 0.5\%$

6a. $55\% = \frac{55}{100} = \frac{11 \cdot \cancel{5}}{20 \cdot \cancel{5}} = \frac{11}{20}$

6b. $0.01\% = \frac{0.01}{100} = \frac{100(0.01)}{100(100)} = \frac{1}{10,000}$

6c. $125\% = \frac{125}{100} = \frac{5 \cdot \cancel{25}}{4 \cdot \cancel{25}} = \frac{5}{4}$

7. $\frac{7}{30} \approx 0.23333 \approx 23.33\%$

8. WEATHER REPORTS

If there is a 40% of rain, there is a
(100 - 40)% , or 60% chance of no rain.

9. $\frac{2}{3} = 66.\bar{6} = 66\frac{2}{3}\%$

10. $\frac{1}{4} = 0.25 = 25\%$

11a. SHRINKAGE

l = length lost due to shrinkage

$$l = 34 \cdot 0.03$$

$$l = 1.02$$

1.02 in. of length will be lost.

11b. r = resulting length

$$r = 34 - 1.02$$

$$r = 32.98$$

The resulting length is 32.98 in.

