

13.2 Review - Warm - up

1. The results of a survey of newspaper readers' article preferences are organized in this frequency table. What is the relative frequency of preference for sports news?

Type of Articles Preferred	Frequency
Comic strip	9
Letters to the Editor	15
Puzzle section	11
Sports news	32
World news	35

TOTAL = 102

$$= \frac{32}{102} = .3137 = \boxed{31\%}$$

2. From the table above, what is the probability that a reader chosen at random would prefer to read the world news?

$$P(\text{world news}) = \frac{35}{102} = .3431 = \boxed{34\%}$$

3. A computer application-training program conducts the same course for a span of 5 weeks in a company with 105 ^(TOTAL) employees. 10 employees attended week 1, 26 attended week 2, 24 attended week 3, 10 attended week 4, and 35 attended week 5. What is the probability distribution of attendance for each week?

$$\text{Week \#1} = \frac{10}{105} = .095 = \boxed{10\%}$$

$$\text{Week \#2} = \frac{26}{105} = .247 = \boxed{25\%}$$

$$\text{Week \#3} = \frac{24}{105} = .228 = \boxed{23\%}$$

$$\text{Week \#4} = \frac{10}{105} = \boxed{10\%}$$

$$\text{Week \#5} = \frac{35}{105} = .33 = \boxed{33\%}$$